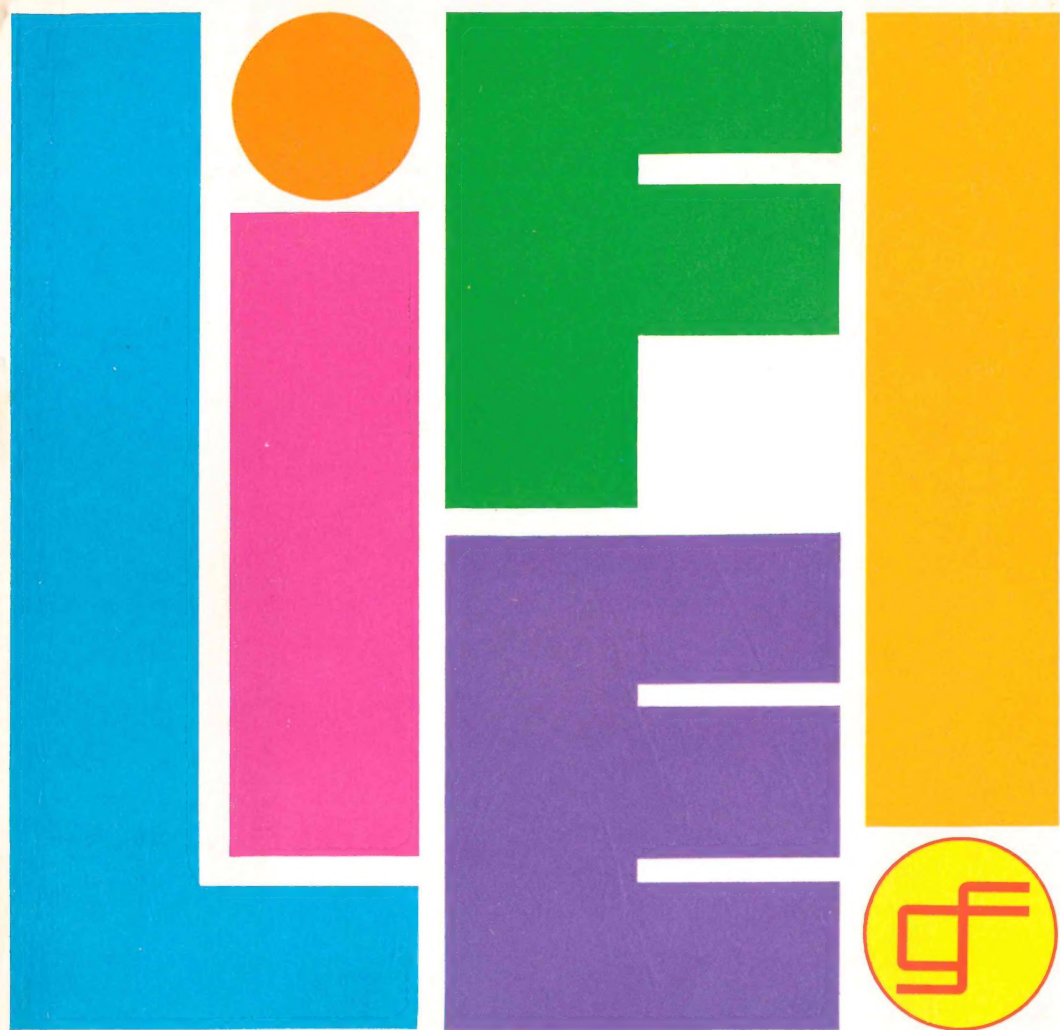


George Fox College



Catalog 1971-72-73

GEORGE FOX COLLEGE • NEWBERG, OREGON

Directory

CORRESPONDENCE MAY BE ADDRESSED AS FOLLOWS:

ACADEMIC RECORDS AND TRANSCRIPTS—Registrar

ALUMNI AFFAIRS—Executive Director of Alumni Affairs

APPLICATION FOR ADMISSION—Director of Admissions

BUSINESS MATTERS—Dean of Administration

COURSES OF STUDY—Dean of Faculty

DEVELOPMENT—Director of Development

GENERAL INFORMATION—Correspondence having to do with matters other than those specified should be addressed to the Office of the President.

HOUSING FOR MARRIED STUDENTS—Dean of Student Affairs

INFORMATION CONCERNING SCHOLARSHIPS, LOANS, AND
EMPLOYMENT—Student Financial Aid Officer

PUBLIC INFORMATION SERVICES—Director of Public Relations

STUDENT LIFE—Dean of Student Affairs

GEORGE FOX COLLEGE
NEWBERG, OREGON 97132
Telephone: (503) 538-2101

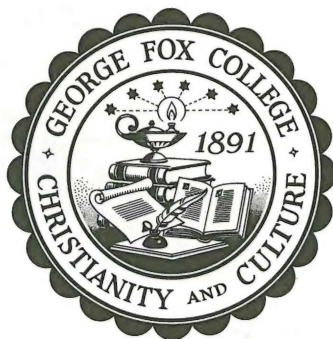
(Information in this catalog is generally current as of February 1, 1971.)

George Fox College Life

Catalog Edition

1971-72

1972-73



**GEORGE FOX COLLEGE
NEWBERG, OREGON 97132**

Vol. I, No. 3

May, 1971

George Fox College *LIFE* is published five times a year in January, April, May, June, and October by George Fox College, Newberg, Oregon 97132. Entered as second class matter at Newberg, Oregon 97132.



ACCREDITATION AND MEMBERSHIPS

George Fox College is accredited by the Northwest Association of Secondary and Higher Schools, and by the Oregon Board of Education for the preparation of secondary teachers in specific fields. It is approved by the Oregon State System of Higher Education for the training of elementary teachers in conjunction with the Oregon College of Education in a joint-degree program, by the Federal Government and the State of Oregon for the education of veterans, by the United States Attorney General for the admission of alien students, and by the American Association of University Women.

The college holds memberships in the Association of American Colleges, the Association of Schools of Religious Education, the Council for the Advancement of Small Colleges, the Friends Council on Education, the Association of American Friends Colleges, the College Entrance Examination Board, the College Scholarship Service, the National Association of Foreign Student Affairs, the Northwest Association of Private Colleges and Universities, and the Oregon Independent College Association.

Contents

This catalog presents an outline of courses, requirements for admission and general information for the academic years 1971-72, 1972-73. The registers of faculty, administration, and Board of Trustees are for the year 1970-71.

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1971

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The Calendar 1971-72

FALL TERM

September 16-18, Thursday-Saturday	Faculty Preschool Conference
September 21, Tuesday 2:00 p.m.	Dormitories open to freshmen
September 21-25, Tuesday-Saturday	Orientation week
September 24, Friday 2:00 p.m.	Dormitories open to upperclassmen
September 24, 25	Registration
September 27, Monday	Classes begin
September 27, Monday	Late registration and change fee effective
October 1, Friday 11:00 a.m.	Fall Convocation
October 8, Friday	Last day to register or add courses
November 22-December 7	Advisement and registration for winter and/or spring term
*November 24-28, Wednesday-Sunday	Thanksgiving vacation
December 14-16, Tuesday-Thursday	Final examinations
**December 16, Thursday	Term ends

WINTER TERM

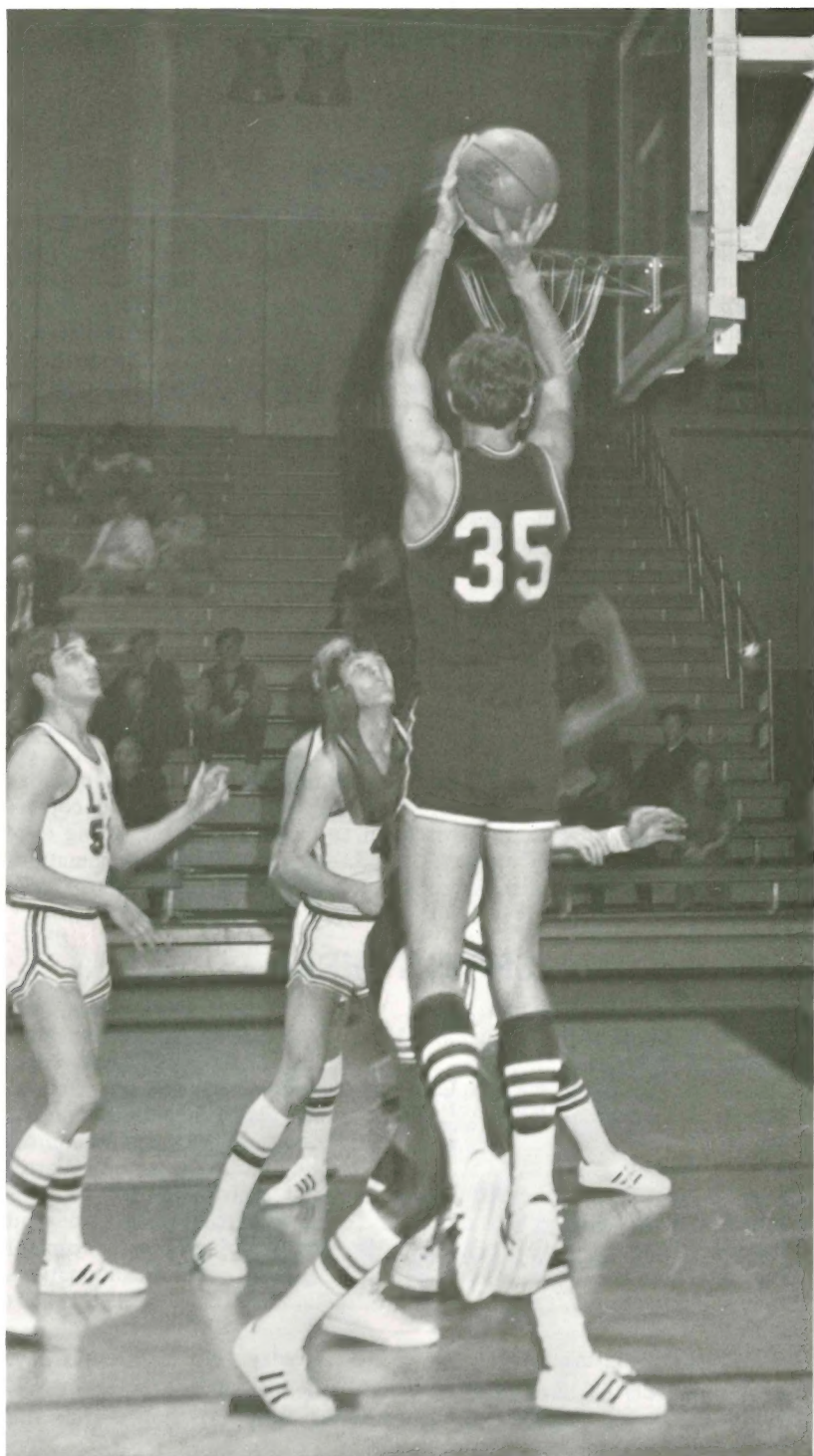
January 2, Sunday 2:00 p.m.	Dormitories open
January 3, Monday	Registration for new students
January 4, Tuesday	Classes begin
January 4, Tuesday	Late registration and change fee effective
January 15, Friday	Last day to register or add courses
February 29-March 7	Advisement and registration for spring term
March 14-16, Tuesday-Thursday	Final examinations
**March 16, Thursday	Term ends

SPRING TERM

March 26, Sunday 2:00 p.m.	Dormitories open
March 27, Monday	Registration for new students
March 28, Tuesday	Classes begin
March 28, Tuesday	Late registration and change fee effective
March 31, Friday	Good Friday (chapel observance)
March 31, Friday	Last day to register or add courses
April 2, Sunday	Easter
May 15-26	Advisement and registration for 1972-73
June 2-4, Friday-Sunday	Commencement weekend
June 4, Sunday	Baccalaureate and commencement
June 6-8, Tuesday-Thursday	Final examinations
**June 8, Thursday	Term ends

*Breakfast will be the last meal served Wednesday. No classes this day.

**At the end of the term, the last meal to be served in Heacock Commons will be the noon meal. Dormitories close two hours after the last meal is served.



The College

Early Quaker settlers in the Willamette Valley of western Oregon founded Pacific Academy at Newberg in 1885. Six years later, more advanced education was also provided by the establishment of Pacific College. Pacific Academy was discontinued in 1930, and Pacific College was renamed George Fox College in 1949, honoring the founder of Quakerism.

The college is governed by a Board of Trustees elected by Northwest Yearly Meeting of Friends Church, which has historically emphasized: the necessity of a genuinely experiential religious faith; the spiritual nature of the ordinances; the importance of peacemaking and responsible social action; and the freedom for individuals to exercise liberty of conscience. With many other Christians, the college holds the great, historic truths of Christianity including: the deity of Jesus Christ; the authority and inspiration of the Holy Scriptures; the necessity of salvation for man; and the present ministry of the Holy Spirit.

George Fox College invites students of all races and creeds to participate in its educational programs.

OBJECTIVES

The objectives of the college are to:

1. Support the continual strengthening of academic programs that are in keeping with a liberal arts tradition.
2. Offer courses of study that prepare students to do graduate work and to assume the responsibilities and duties related to their chosen profession.
3. Maintain a program of varied activities that encourages devotional attitudes toward God, revealed in the attainment of personalized Christian beliefs; develop greater capacity for moral and ethical judgments in relationships with other persons; and develop a greater desire to serve mankind in a spirit of Christian love.

4. Provide a center for the evangelical movement among Friends, consistent with the message of their founder, and for the education of Quaker students concerning the history and Christian doctrines of their denomination.

5. Promote cocurricular activities that will emphasize the development of leadership, initiative, and teamwork by giving opportunity to make practical use of the skills and ideas acquired in academic courses.

6. Make itself a community in which studies and activities are made relevant to life, develop insight into social and political issues confronting mankind, and learn to participate democratically in decision-making and policy-implementing as responsible citizens.

7. Serve as a cultural center for all publics of the college and sponsor programs that are informative and culturally stimulating to the larger college community.

FACILITIES

George Fox College is located on a fifty-acre campus in a town of 6,500 a half-hour freeway drive from Portland, Oregon. Fifteen buildings have been constructed or remodeled in the last twelve years; plans for others are underway, including a chapel-fine arts complex.

WOOD-MAR HALL contains the administrative offices, the chapel, religion faculty offices, and computer center.

MINTHORN HALL is the only first-generation building yet in use. Completely remodeled and refurbished in 1962, it houses classrooms and offices, a curriculum library for teacher training, and an audiovisual center.

BROUGHER HALL, erected in 1947 and remodeled and enlarged in 1959 and 1961, contains physics laboratories, mathematics and art classrooms, and a shortwave radio station.

HESTER MEMORIAL GYMNASIUM has a collegiate-size floor, game room, body-building room, dressing rooms, and offices for both men's and women's physical education.

SHAMBAUGH LIBRARY, dedicated in 1962, is built to house 50,000 volumes on three floors. Its features include study carrels, rare book collections, microfilm room, music listening room, soundproof typing room, museum, audiovisual auditorium, seminar room, and art and record collections.

SMITH APARTMENTS has five units for married students.

WEESNER VILLAGE consists of twelve apartments designed for use by faculty or married students.

PENNINGTON HALL, built in 1962, is a coeducational dormitory for 100 students. It provides an infirmary, a guest room, a soundproof study room, a central lounge, game rooms, and a deans' apartment.

EDWARDS HALL is a residence hall for women constructed in 1964, overlooking Hess Canyon. It houses 104 students.

HOBSON HALL, dedicated in 1968, is a residence hall for seventy-four men.

STUDENT UNION, built in 1958 and enlarged in 1968, includes a lounge, prayer room, snack area, book store, post office, TV room, game room, and offices for the student organizations.

HEACOCK COMMONS, built in 1964-65, adjoins the Student Union Building and provides a modern dining hall and kitchen.

CALDER CENTER, built in the summer of 1964, is the combination of three hexagon modules providing eighteen classrooms for science, home economics, and foreign languages; nine offices for faculty members; and a lecture hall that seats 165 persons.

FINE ARTS BUILDINGS I and II, constructed in 1947, house classrooms, studios, practice rooms, the music listening lab, the electric piano lab, and faculty offices for the music department.

COLCORD MEMORIAL FIELD contains a new track, football field, baseball diamond, and hockey field.

TENNIS COURTS, tournament type, were built in 1961.

The **ASSOCIATED CHRISTIAN COLLEGES OF OREGON (ACCO)** is a consortium presently comprised of George Fox College and Warner Pacific College. It was established in order to pursue programs of cooperation by which economies and efficiencies of operation might be realized. Three general areas of cooperation have been developed: curricular, academic supporting services, and operational management and administration.





Campus Life

Programs of residence life, health services, athletics, student government, and counseling are designed to help students achieve the full humanity provided through Jesus Christ.

RESIDENCE LIFE

Three modern dormitories, all built within the past nine years, house 300 students. Pennington Hall, with a capacity of one hundred, is a coeducational residence with separate wings for men and women students. Edwards Hall is a residence for 104 women designed with two separate wings of three floors each. Hobson Hall, a men's residence, houses seventy-four students. In addition, there are twelve apartments located in Weesner Village available to married students. Additional existing housing, contiguous to the campus, has been purchased to provide housing needs as the college continues to grow. This apartment-type residence is reserved for junior and senior men and women on a specified priority basis. The auxiliary housing is, for the most part, unfurnished. Student rooms are furnished with beds, mattresses, study areas, and wardrobes. Students are expected to provide their own bedding (except linens), towels, and other furnishings. Bed linens are furnished by the college. All belongings should be marked clearly for identification. Laundry facilities are provided in each residence. If a student has a preference regarding residence hall placement, he should notify the admissions office in writing.

HEALTH SERVICES

The college nurse works in close cooperation with local physicians to provide student health services. She maintains regular hours for appointments. Students in need of medical care at other times may contact her at home.

An accident insurance policy is in force for all students. Insurance forms must be secured from the college nurse prior to treatment. In case of emergency illness or accident, the college assists in sending a student to the local hospital and in procuring the services of a physician as required.

ATHLETICS

Intercollegiate athletics at George Fox College constitutes an integral part of the overall educational program. Varsity athletic teams represent the college in baseball, basketball, soccer, tennis, track, and wrestling. Women students compete in field hockey, volleyball, badminton, basketball, tennis, track, and softball. For those not participating in varsity athletics, the college has a complete intramural program including flag football, basketball, volleyball, and softball.

Varsity athletic competition functions under the direction of the National Association of Intercollegiate Athletics, of which the college is a member.

STUDENT ORGANIZATIONS

THE ASSOCIATED STUDENTS OF GEORGE FOX COLLEGE is an organization of all students in the college who carry at least ten term hours. The governing assembly of the student body is the ASGFC Student Senate. The Student Council, consisting of association officers, serves the ASGFC in an executive capacity. The ASGFC sponsors the publication of the campus newspaper, *The Crescent*, and the student yearbook, *L'Ami*. It also sponsors such activities as the annual May Day celebration and student social events.

CIRCLE K INTERNATIONAL is a campus service club sponsored by Kiwanis International. The purpose of this club is to promote citizenship and service in college life.

DELTA PSI OMEGA is a national honorary club which promotes student participation in dramatic presentations.

GOLD "Q" CLUB consists of girls who have won one or more letters in college sports. The club endeavors to further all athletic activities and foster student enthusiasm.

THE INTERNATIONAL CLUB promotes social fellowship and understanding between American and foreign students.

KAPPA TAU EPSILON is an association of women students of George Fox College. Organized in 1964, it governs the women students of George Fox College. Every woman enrolling in George Fox College automatically becomes a member of Kappa Tau Epsilon. The annual dues are \$1.50; 50¢ is collected by the bursar of the college each term.

THE ORDER OF THE BRUIN is for all men who have won a varsity letter in any major sport and who have been duly elected.

SCRIBBLERS CLUB is composed of persons interested in literature. The club promotes the appreciation of literature, creative writing, and discussion of the various authors and their works. The club sponsors the occasional publication of student anthologies.

THE SKI CLUB seeks to promote this activity as a means of group recreation.

STUDENT CHAPTER MUSIC EDUCATORS NATIONAL CONFERENCE provides a bond between students in music education and the professional organization. Students receive the *Music Educators Journal* and the *State Music Journal*. Members may attend meetings of these professional educators organizations. The club also sponsors speakers on new developments in the music education field.

THE STUDENT CHRISTIAN UNION coordinates Christian activities on the campus and provides varied opportunities for every student who desires to participate in some phase of Christian work.

STUDENT OREGON EDUCATION ASSOCIATION seeks to prepare prospective teachers for educational leadership. The club sponsors various projects and meetings with special educational emphases.

ACTIVITIES

HOMECOMING is one of the major campus events of the year when the entire college community hosts returning alumni.

FUTURE FRESHMAN DAY is held on a Saturday during fall term when the faculty describes to interested high school students the academic course offerings, social, cultural, and spiritual advantages that the college provides for its students.

MAY DAY celebration, directed by the Associated Students, is held annually on the first Saturday of May.

FORENSICS is emphasized through the speech contests of the Intercollegiate Forensics Association of Oregon in oratory, extemporaneous speaking, after-dinner speaking, and debating.

DRAMA presents at least one major dramatic production annually. In addition, minor presentations are given, often under the sponsorship of Delta Psi Omega.

PUBLICATIONS include a newspaper, *The Crescent*, and an annual, *L'Ami*. Elected editors direct their staffs in the selection and preparation of materials for these publications. *The Crescent* is a member of the Associated Collegiate Press.

CHRISTIAN EMPHASIS WEEKS are sponsored each year by the Student Christian Union. Christian leaders are brought to campus for chapel presentations, smaller group meetings, and personal counseling sessions.

MISSIONS CONFERENCE is sponsored annually by the Student Christian Union. Executives and missionaries from numerous organizations participate through chapel messages, classroom presentations, and exhibits.

SOCIAL EVENTS—Two formal events are held during the year, one near Christmas during fall term and the other at the end of winter term.

COCURRICULUM AND ELIGIBILITY

Cocurricular activities are considered a vital part of the George Fox College experience. These activities are defined as all organized activities not directly connected with the requirements of a specific course of study: intercollegiate athletics, positions in student government, club offices, drama, and intercollegiate debate. To prevent jeopardizing academic achievement through excessive involvement in cocurricular activities, an eligibility standard is adhered to as follows:

1. A student must be enrolled in a minimum of twelve hours to be eligible for participation in cocurricular activities.

2. Students who enter college provisionally may participate in cocurricular activities during their first term. Thereafter, they come under the eligibility standards for regular students.

3. Regular students who drop below the performance level in any particular term (see page 21 for a complete explanation of what constitutes poor performance) will have their programs reviewed by the Academic Committee. This committee is empowered to require curtailment of curricular, cocurricular, or work activities.

STUDENT RELIGIOUS LIFE

The college believes an important phase of student life is the maintenance of the highest standards of Christian conduct. The churches of the community maintain varied programs of activity for college youth. Regular church attendance is desired of all students.

Chapel services provide a source of Christian inspiration and instruction. Chapel attendance is required of all students enrolled for eight or more credit hours. Chapels are held two days each week. Musical programs, outstanding speakers, faculty, and student participation seek to produce interesting, informative, inspirational chapel services and convocations. Chapel seating is assigned, and an attendance roll is maintained. The dean of student affairs may grant excuses for necessary chapel absences.

The inclusion in the curriculum of required courses in religion is designed to ensure a knowledge of the Bible and Christian philosophy.

Deputation work is encouraged as a means of developing abilities of students in the work of the church. Anyone representing the college in deputation work must be authorized to do so by the college administration.

The Student Christian Union sponsors a weekly meeting, two weeks of Christian Emphasis each year, an annual missions conference, various prayer meetings, and service projects.

STUDENT CONDUCT

When a student enters the college, he agrees in writing to have due regard for the regulations of the institution. All regulations are designed to allow the fullest liberty consistent with efficient work while at the same time promoting the welfare of the college community.

Since its beginning, those who have carried the responsibility for the management of George Fox College have agreed that its purpose could not be fulfilled nor the best interests of its students served without placing a ban upon the use or possession of alcoholic beverages, hallucinatory drugs, tobacco, and participation in gambling and dancing. When the Administrative Council considers it advisable, any student whose actions are antagonistic to the ideals of George Fox College may be dismissed.

The administration believes that marriage within a unit of study is a hindrance to the best work of students and strongly advises that such plans be postponed until the unit of study is completed. It is requested that students not marry during a term without permission of the administration.

A full presentation of regulations governing student conduct and discipline is available in the student handbook.

Admissions, Expenses, and Financial Aid

George Fox College admits those students believed most likely to profit from its curriculum and its Christian educational philosophy. Applicants are evaluated on the basis of scholastic aptitude and achievement, personal maturity, social responsibility, and willingness to profit from a Christian education.

Graduates from accredited high schools or other secondary schools of equal standing with an official transcript showing satisfactory completion of sixteen properly distributed units of work are eligible for admission. The following high school units are recommended: English, 4; social studies, 2; science, 2; mathematics, 2; language, 2; health and physical education, 1. High school students planning to apply for admission should take the College Board test (SAT) or a suitable equivalent. Students should send their test scores to the Office of Admissions, George Fox College, Newberg, Oregon 97132. A limited number of applicants for admission to the freshman class whose grade-point average for their high school work is less than a "C" or its equivalent will be admitted on provision for one term.

Admissions Procedure

1. Write to the Director of Admissions, George Fox College, Newberg, Oregon 97132, for information and admission forms.
2. Request a transcript of academic credit from the secondary school last attended. Transfer students must request a transcript from each college in which they have been registered and may be asked to furnish a high school transcript also.
3. Complete the admission form and return it to the Director of Admissions. A nonrefundable application fee of \$10 shall accompany the admission form.

4. Submit reference sheets to designated persons who will return the completed reference to the Admissions Office.

5. When all forms have been received, and the admission fee paid, the student's file is complete. He will then be presented to the Admissions Committee for action. Notification is given the applicant promptly following the committee's decision.

6. Upon acceptance, a tuition-room reservation deposit of \$60.00 must be submitted.

7. Before the accepted student may enroll for any course, he must submit to a physical examination.

8. It is recommended that all applicants for financial aid complete application for admission by April 1. Acceptance cannot be guaranteed after June 1.

EXPENSES

A student is registered and can attend classes when he has paid his account in full or has signed with his parents a contract for one of our payment plans. (See page 15.)

Term Charges

TUITION AND FEES

1-11 hours—\$45.00 per hour

12-17½ hours—\$540.00 per term

Over 17½ hours—\$45.00 for each additional hour

Student Affairs Fee, ten or more hours* (men) \$26.00

(women) \$26.50

Health Insurance Fee, ten or more hours—\$10.00 (subject to change)

ROOM AND BOARD**

Pennington Hall, double room \$300.00

Pennington Hall, single room 330.00

Edwards Hall 300.00

Hobson Hall 300.00

Weesner Village (honor dorm-apartments) 310.00

Room damage deposit*** 20.00

* Student affairs fee is assessed to each student enrolling for ten or more hours. It is collected by the business office acting as agent for the Associated Students at the time of registration. The fees underwrite student publications, the Student Union Building, and admission to athletic events.

** All students living in college dormitories are expected to board in Heacock Commons. Meal tickets may also be purchased by commuting students.

*** A \$20.00 room damage deposit is required of all residence hall students. Each student is responsible for the proper care of his room. An opportunity is given at the time of occupancy for a student to certify the condition of his room. Any damage other than that existing at occupancy is the responsibility of the student occupying the room. This does not apply, of course, to normal "wear and tear." The \$20.00 deposit will be refundable within thirty days of the close of the term or date of withdrawal from college.

Special Fees

Application fee (submitted with application for admission)	\$10.00
Applied music: voice, piano, organ, instruments (per term)	40.00
(Fees for rental of instruments, practice rooms, etc. are set by the Music Department and range from \$5 to \$15 per term.)	
Audit of courses (per term hour)	25.00
Automobile, \$2 per term, or per year	5.00
Change of registration, per course (after classes begin)	2.00
Chemistry breakage ticket (unused portion refundable)	5.00
Course challenge examination, per term course	5.00
Credit by examination (\$25 minimum) per credit hour	5.00
Graduation	15.00
Incomplete grade removal (per course)	2.00
Joint-degree registration (per term)	5.00
Late "registration,"* \$5 for first day plus \$1 for each additional day	
Orientation, charged to incoming freshmen	10.00
Physical education activity: swimming, golf, bowling (per term) ..	12.50
Room reservation deposit (returning students)**	30.00
Senior Citizens fee (per term)	5.00
Special examination	5.00
Transcript (each, after first copy)	1.00

Certain provisional students will be charged an additional fee each term to cover the cost of remedial services.

* "Registration" means completion of financial arrangements as well as course selection.

** Ten dollars of the room reservation deposit is nonrefundable. Twenty dollars is refundable if requested before August 1.

NOTE: The above charges and fees are for the academic year 1971-72. Some adjustments may be made for the 1972-73 year.

General Information

1. George Fox College is by design a residential campus. Adequate facilities are available to meet the needs of all unmarried students in the three major resident halls. In addition, the college owns more than 40 apartments, which are available to married students and upper-division single students. Single students over 21 are permitted to live in college-approved housing upon application.

2. George Fox College reserves the right to change its charges at any time without previous notice.

3. The college is not responsible for loss or damage to a student's personal property. Any damage to college property caused by a student must be compensated for by the student. Students who fail to comply with dormitory and college regulations are subject to disciplinary action.

4. Transcripts and diplomas may be granted only to students whose accounts are paid in full.

5. No student dismissed by the college will receive any refund for tuition, fees, or room. A refund of 90 percent of the board will be prorated as of the last day on campus. Any unpaid balance allowed for work credit becomes immediately due and payable.

6. Students who withdraw from college or reduce extra credit hours and who have complied with the regulations governing withdrawals are entitled to refunds as follows:

TUITION REFUND

During first week of class—90% (does not apply to reduction of extra credit hours)

During second week of class—80%

During third week of class—60%

During fourth week of class—40%

During fifth week of class—20%

After fifth week of class—0%

Refunds are effective from the date the application for refund is received in writing and not from the date attendance is discontinued.

STUDENT AFFAIRS and HEALTH INSURANCE FEES are *not refundable*.

ROOM REFUND

Room refund for any student withdrawing from school or moving off campus will not be made unless the room is reoccupied by an off-campus student at that time. The refund will be computed for the part of the term remaining for the new occupant.

BOARD REFUND

Ninety percent of the board will be refunded on a prorated basis as of the last day on campus for any student withdrawing or moving off campus.

FINANCIAL AID

Honors

A limited number of Honors Scholarships are awarded each year. Each student graduating in the upper ten percent of his high school class or scoring at the ninetieth percentile or above (verbal or math) on the SAT section of the College Board Examination is eligible. An honors award may be granted and the award may be continued for a term at a time if the recipient achieves a cumulative grade-point average of 3.50. (A student must carry a minimum of twelve term hours in order to be eligible for honors the next term.)

George Fox College is a member of the program of the California Scholarship Federation. The CSF gives recognition to high school seniors who are in the upper five percent of their class.

Graduation Honors

Graduation Honors are conferred upon a student whose cumulative GPA is maintained at a high level during his entire college course. Students with a cumulative 3.50 at graduation are awarded their degrees *cum laude*; those with a cumulative 3.70 receive their degrees *magna cum laude*; those with a cumulative 3.90 receive their degrees *summa cum laude*.

Scholarships and Grants-in-aid Available to Freshmen Students

Scholarships other than those listed on these pages are available to students planning to attend George Fox College. Students should investi-

gate local scholarships and grants offered through their high school or community organizations.

DR. JOHN C. AND ESTHER BROUGHER PREMEDICAL SCHOLARSHIP

The Scholarship Committee annually awards a scholarship of \$250, donated by Dr. and Mrs. John C. Brougher of Vancouver, Washington, to a student enrolled in a premedical course.

CHURCH-COLLEGE FELLOWSHIP AWARDS

George Fox College will match up to \$300—dollar for dollar—contributed by a student's home church as he or she prepares for a full-time Christian vocation. George Fox College will match up to \$100—dollar for dollar—contributed by a student's home church as he or she prepares for any vocation. The names and funds should come from the scholarship committee of the home church. Awards are subject to review and/or adjustment in instances where other GFC aid has been given.

CRISMAN BROTHERS SCHOLARSHIP

Three Crisman brothers, Clynton, Leo, and Iryl, members of a Camas, Washington, Quaker family, have founded a \$150 annual scholarship for a worthy incoming freshman. Award is made by the Scholarship Committee.

KRISTINE DICUS MEMORIAL SCHOLARSHIP

A \$500 grant to be awarded to a girl with major music interest.

M. LOWELL AND MARGARET W. EDWARDS PREMEDICAL SCHOLARSHIPS

These scholarships are available to students looking forward to a medical profession.

HONORS AT ENTRANCE (See above)

INTERNATIONAL STUDENT SCHOLARSHIP

Students from missionary fields abroad may receive up to full tuition.

THERON JAMES SCHOLARSHIP

This scholarship is offered to a graduate of Willamette High School of Eugene. The selection is made by the James family after the student has been accepted by George Fox College.

MINTHORNE GRANT-IN-AID

One \$300 grant is awarded each year.

MUSIC GRANTS-IN-AID

Two are awarded to incoming freshmen. These grants provide \$250 yearly for a four-year period to a total of \$1,000.

MUSIC SCHOLARSHIPS

Each year the college awards sixteen music scholarships that provide for private vocal or instrumental lessons. Scholarship winners are chosen by audition. Seven are awarded to freshmen.

NATIONAL MERIT SEMIFINALISTS

A one-fourth tuition scholarship is granted to any eligible semifinalist who shows need.

NEUBERG FRIENDS CHURCH GRANT-IN-AID

The college church provides a one-half tuition grant each year to a qualified freshman considered worthy by the Scholarship Committee and the Monthly Meeting.

REEDWOOD FRIENDS CHURCH GRANT-IN-AID

A grant of \$200 per year is awarded to a student from the Portland area who meets the character and financial need requirements.

PUGET SOUND AREA GRANT-IN-AID

A grant is awarded each year to a student from Puget Sound Area. This is awarded on the basis of scholarship, character, and financial need.

FRANK D. ROBERTS FAMILY MEMORIAL SCHOLARSHIP

This award is underwritten by the children of the late Frank Roberts, long-time principal of Greenleaf Academy. The one-half tuition scholarship is granted each year to a student having the highest rank in scholarship and character from Greenleaf Academy.

ROBERTSON GRANT-IN-AID

One grant-in-aid in the amount of \$100 is awarded each year to a child of missionaries. This is given by Robert Robertson.

SALEM AREA GRANT-IN-AID

Each year Salem Area of Friends offers to a student from that Area a grant, which is awarded on the basis of scholarship, character, and need.

JOANNE (BROUGHER) SUMMERS MEMORIAL SCHOLARSHIP

This is available to any foreign student.

Scholarships Available to Students Above Freshman Level

ACTIVITY GRANTS-IN-AID

Available to students proficient in athletics, drama, music, and speech.

ANKENY FAMILY ATHLETIC AWARD

This award, in the amount of \$500, is given yearly to a male junior athlete planning to coach and teach physical education. The recipient must reside in one of the thirteen western states (including Alaska and Hawaii).

DR. JOHN C. AND ESTHER BROUGHER PREMEDICAL SCHOLARSHIP

For description see Scholarships for Freshmen above.

CHURCH-COLLEGE FELLOWSHIP AWARDS

For description see Scholarships for Freshmen above.

CONTINUING HONORS

For description see Scholastic Honors above.

M. LOWELL AND MARGARET W. EDWARDS PREMEDICAL SCHOLARSHIPS

For description see Scholarships for Freshmen above.

HOLMAN PHILOSOPHY SCHOLARSHIP

Jack S. Holman, prominent Newberg businessman, provides a \$600 scholarship for an upper-class student on the recommendation of the Division of Religion.

INTENSIFIED STUDIES SCHOLARSHIPS

A small number of the highest-ranking students is selected at the end of the freshman year, or later, to enter the challenging Intensified Studies program. Gifts have been provided so that these youth may be freed from unnecessary financial concern.

INTERNATIONAL STUDENT SCHOLARSHIPS

For description see Scholarships for Freshmen above.

JACKSON FOUNDATION SCHOLARSHIP

The Jackson Foundation makes a \$500 grant each year to the college to be awarded to a student who is a graduate of an Oregon high school, has the ability to do high quality college work, and is in need of financial assistance. Preference is given to the son or daughter of any present or former employee of the *Oregon Journal*.

KENT MINISTERIAL SCHOLARSHIP

A partial scholarship is awarded to a junior or senior student planning to enter the ministry. Selection is made by the Division of Religion.

MUSIC SCHOLARSHIPS

Each year the college awards nine music scholarships that provide for private vocal or instrumental lessons. Scholarship winners are chosen by audition.

ORPHA PUCKETT LARRANCE MEMORIAL SCHOLARSHIP

This award of \$500 is provided by the children of the late Orpha Larrance for a woman student majoring in elementary education or home economics with a 3.00 GPA or above.

REMPEL SCIENCE SCHOLARSHIP

This is a scholarship awarded by Professor Evan Rempel, of George Fox College, to a student with high proficiency in the field of mathematics.

SALEM AREA GRANT-IN-AID

For description see Scholarships for Freshmen above.

JOANNE (BROUGHER) SUMMERS MEMORIAL SCHOLARSHIP

For description see Scholarships for Freshmen above.

Additional Financial Aid Information

1. Deferred Payment Plans

Plan A. Twelve monthly payments commencing July 1.

Plan B. One-half at term registration. The balance in two equal monthly payments.

A \$10 service charge is made for either plan. The 12-payment monthly budget plan includes life insurance without charge to the parent. Brochure, application, and contract are available from the Student Financial Aid Office.

2. National Defense loans are available for students.

3. United Student Aid Funds, government guaranteed, and federally insured loans are available for students.

4. Student employment on campus is available to worthy applicants within a limited budget. The college also assists in securing off-campus employment.

5. Certain students living outside a radius of 500 miles from Newberg shall be given a transportation subsidy amounting to one round trip student air fare from home to Portland. The form of this grant will be a tuition discount during the spring term. To be eligible, a student must attend George Fox College for the full academic year.

To receive this assistance, the analysis report taken from the Parents' Confidential Statement of the College Scholarship Service should show

sufficient resident financial need. The maximum individual grant is \$200. This applies only to students residing in one of the fifty states.

Requests for financial information should be directed to the student financial aid officer.

Discounts

1. The college grants full tuition to unmarried sons or daughters of full-time faculty or staff of George Fox College, Malone College, and Friends University.

2. The college grants one-half tuition discount to a faculty or staff member and/or spouse enrolled for a college course.

3. Students receiving discounts must attain a cumulative GPA of at least 2.00 by the time they begin their third year of college in order to continue to receive the discount.

4. Any parent with two or more unmarried sons or daughters at George Fox College shall be eligible for a ten percent discount from tuition charges for each son or daughter in addition to the first in attendance, provided the total term charges are paid at the time of registration.

Application Process for Financial Aid

George Fox College participates in the College Scholarship Service (CSS) of the College Entrance Examination Board. Participants in CSS subscribe to the principle that the amount of financial aid granted a student should be based upon financial need. The CSS assists colleges and universities and other agencies in determining the student's need for financial assistance. Entering students seeking financial assistance are required to submit by June 1 a copy of the Parent's Confidential Statement (PCS) form to the College Scholarship Service designating George Fox College as one of the recipients. The PCS form may be obtained from a secondary school or the College Scholarship Service, P.O. Box 176, Princeton, New Jersey 08540, or P.O. Box 1025, Berkeley, California 94704.

Application for financial aid for a student first entering George Fox College should be made as soon as he is accepted for admission, and annually thereafter. He must list explicitly his first choice of the scholarships or grants offered. A second choice may be listed if the applicant so desires.

Academic Regulations

The college year at George Fox College is divided into three terms of approximately eleven weeks each. The unit of credit is the term hour that is normally granted for the satisfactory completion of a course meeting one period (fifty minutes) per week for one term. Credit for all courses is indicated in term hours; all student requirements, advancements, and classifications are based on these units.

THE GRADING SYSTEM

Term grades are determined by the instructor's evaluation of the student's daily participation in class, his performance on periodic tests, his work on term papers and class projects, and his achievement on final examinations. The grades used and their significance are as follows:

A—exceptional work; B—superior work; C—average work; D—inferior work, but still passing; P—credit, but not computed in GPA; NP—not passing, no credit but not computed in GPA; S—satisfactory, for courses (usually in major) in progress requiring more time such as research and independent study; I—incomplete, for course work not completed because of conditions beyond the student's control; W—official withdrawals; F—failure to complete the minimum required work or unofficial withdrawal.

GRADE POINT AVERAGES

Grade points are given for each term hour according to the following schedule: A, 4 points; B, 3 points; C, 2 points; D, 1 point. Grade points are assigned for the purpose of determining scholastic averages. A student's grade-point average (GPA) is computed by dividing the total number of grade points earned by the sum of the graded hours attempted, including failures, but excluding incompletes, withdrawals, and noncredit courses. The grade points for "S" credits are determined by the grade-point average for all other courses taken in the term during which the "S"

is earned, and will remain until such time as another grade may be submitted upon completion of the course. The "I" grade that has no grade points must be removed during the next term the student is in attendance; otherwise, the "I" remains. (For removal of an "I" see special fees page 13.) The GPA on the most recent term of attendance is the current GPA; that computed on the student's entire period of enrollment in George Fox College and other colleges attended is his cumulative GPA.

Although the "NP" grade is not computed in the GPA, the student may remove a "NP" only by repeating the course with a "C-" level grade or better. (See page 29 for pass-no pass policy.) A student may repeat a course in which he received a "D" or "F." The first grade will remain on the permanent record, but only the higher grade will be computed in the GPA. The "D" or "F" received the first time will be starred (*) on the permanent record to indicate that the course has been repeated. A student may repeat a course from another accredited college in which he has received a "D" or "F" grade, or George Fox College will accept a course taken at another accredited college with a higher grade to replace a "D" or "F" course taken at George Fox College.

CLASSIFICATION

Classification is based upon the student's academic standing in terms of hours and grade points at the beginning of the term. Students may be classified as regular students only when entrance requirements have been met and official transcripts have been received and evaluated. To enter as a freshman, the high school transcript must show a cumulative GPA of 2.00 or higher if one is to be classified as a *regular* student. A student who is accepted for admission into George Fox College with a cumulative GPA below 2.00 from high school will be classified as a *provisional* student.

Regular Students

Students who have satisfied entrance requirements and are following a program leading to a degree are called regular students. They are classified as follows:

FRESHMEN—Students who have completed fewer than 45 term hours

SOPHOMORES—Students who have completed 45 term hours

JUNIORS—Students who have completed 93 term hours

SENIORS—Students who have completed 141 term hours.

Special Students

This classification includes the following:

NONDEGREE SPECIAL STUDENTS

1. Mature students, including "senior citizens," taking courses for personal improvement. See registrar for admission procedure.

2. Transient students regularly enrolled in another institution, but who wish to register for specific courses at George Fox College (fewer than 10 term hours).

3. Students limited to 12 term hours because of academic performance.

Students wishing to enter a regular degree program must petition the Academic Committee for approval and/or fulfill regular admissions requirements.

DEGREE SPECIAL STUDENTS

1. Students taking fewer than 12 term hours on a regular degree program.

2. Students already holding a bachelors degree, but working on a degree from George Fox College in another major (minimum 45 term hours residence).

Provisional Students

Students whose cumulative GPA falls below the levels listed below will be classified as provisional students:

	GPA
Entering freshmen (high school)	2.00
Freshmen	1.75
Sophomores	1.90
Juniors and seniors	2.00

Special training in reading or study skills is available through the George Fox College Counseling Center. Participation may be required of freshmen as part of English 117, 118, 119. It may be required of the nonfreshman who becomes provisional, for whom there will be a one-hour tuition charge. Satisfactory progress is required for continuance past one term: the student must have raised his current GPA to the minimum requirement or at least have made sufficient progress that his advisor and the Academic Committee can recommend continuance on provisional status for another term.

If the student is given academic dismissal, he may appeal his case to the faculty. Otherwise, after one or more terms have elapsed, he may petition the Academic Committee for readmission. This request must accompany the letter required of any returning student (see below). If readmitted, the student will reenter as a provisional student.

Auditors

Subject to instructor approval, any regular or special student may audit courses from which they wish to derive benefit without fulfilling credit requirements. See Special Fees, page 11.

Senior Citizens

Any person 62 years of age or older may enroll for credit or audit. Unless limited by space, equipment, or otherwise, all courses are open. The faculty person involved is the judge in such matters. See registrar for procedure and special fees for cost per term.

Returning Students

To apply for readmittance after an absence of two or more terms a student simply submits a letter stating why he wishes to return and pays the \$10 nonrefundable readmission fee.

If two or more years have elapsed, he must meet any new or revised graduation requirements and may be asked to go through regular admissions procedure.

TRANSFER STUDENTS

Students from other educational institutions may be entitled to advanced standing by presenting official transcripts. George Fox College

applies the accepted credits toward the general education requirements and the student's chosen major. Transfer credit from other colleges will be summarized on our transcripts.

Certain criteria are involved in the evaluation:

1. Only course work with a "C" or better grade will be accepted.
2. All general education requirements except upper division religion will be fulfilled if the applicant holds an Associate of Arts degree from an accredited junior college.

3. A maximum of 96 term hours may be transferred from an accredited junior college toward the bachelors degree.

4. A maximum of 60 term hours of Bible and Christian education may be applied on a degree in a major other than Bible and Christian education.

5. A maximum of 45 term hours may be applied toward a degree by an applicant holding a R.N. degree.

6. A maximum of 30 term hours of approved correspondence work may be applied toward a degree program.

Each student must complete a minimum of 45 term hours in residence for his bachelors degree. Two terms must be in the senior year. (Joint-degree students excepted.)

CLASS ATTENDANCE

The responsibility rests with the student to maintain good standards involving satisfactory scholarship. Regular class attendance is expected of each student in all courses. Work lost because of absence may be made up only in the case of prolonged or confining illness, death of relatives, or similar emergencies. Permission for absences from class for participation in cocurricular college activities must be granted by the dean of faculty.

ACADEMIC LOAD

The student's load will be determined in conference with his advisor. Ordinarily, the first term freshman will register for no more than sixteen term hours. Provisional students will be limited according to the regulations above.

OUTSIDE EMPLOYMENT

The following is suggested as a satisfactory relationship between the student's academic load and his work, on or off campus.

Work	Academic load
Not more than 18 hours	15-17 term hours
Not more than 25 hours	12-14 term hours
Not more than 30 hours	10-12 term hours

CHANGES OF PROGRAM

Course Change

Late admission to classes because of registration changes made after classes begin must be by Change of Registration petition to the registrar, consent of the professor involved, and the payment of a \$2 fee per course.

Withdrawals

1. Withdrawal from class. A student who wishes to withdraw from a course must secure a change-of-registration form from the registrar's office, which is to be approved by the advisor, the instructor involved, the registrar, and the bursar. If a course is dropped without permission, the student will receive an "F" grade.

2. Withdrawal from college. A student should realize that discontinuance of attendance does not constitute a withdrawal. He is required to inform the registrar of his intention to withdraw from the college and to fill out the withdrawal forms furnished by the office. Unless this is done, the student may forfeit his right to a clear transcript of credits and honorable dismissal. This refers to withdrawal from college during a term, not at the end of a term.

Dates for Change of Class Schedule

1. The last day to register or add courses is the second Friday following the day classes begin.

2. The last day to drop a course with a "W" is the last class session before final examinations.

3. If a student discontinues attending class without an official withdrawal, he will automatically receive a grade of "F" (exception P-NP courses).



Degrees and Graduation Requirements

George Fox College confers two degrees: the Bachelor of Arts and the Bachelor of Science. The Bachelor of Arts is conferred upon the student whose major requires foreign language or music theory as part of the general education program. The Bachelor of Science degree is conferred upon the student whose major requires mathematics or science as part of the general education program.

GRADUATION REQUIREMENTS

A Bachelor of Arts or Bachelor of Science degree program consists of courses whose purpose is the completion of a broad general education, plus a major in a chosen subject that enables the student to specialize in a field of liberal arts. The general education requirements compose most of the program of the freshman and sophomore years, while the major dominates the student's junior and senior years. The entire program requires a minimum of 2.00 GPA and 189 term hours of credit, with at least 63 term hours of upper division credits (courses numbered 300 and above).

At least 45 term hours are to be earned in residence. Two terms of residency must be within the senior year.

Courses taken in the major must be passed with a grade point average of 2.00 or higher. No "D" grade in upper division will be accepted for upper division major requirements. The student should seek the advice of his major professor in selecting the optional subjects applicable to the major.

Responsibility for Completing Requirements

The student must recognize and accept his responsibility in meeting all graduation requirements, including filing an application with the registrar two terms or 30 term hours before anticipated graduation. The

PROGRAMS OF STUDY

George Fox College confers two degrees: the Bachelor of Arts and the Bachelor of Science. Each degree builds upon general education courses appropriate to its majors. The general education requirements and options appear on pages 24-25. Specific general education prerequisites are stated under "Major Requirements" within each division.

FIELDS OF STUDY	Subject Majors		Secondary Teaching		Supporting Programs
	B.A.	B.S.	Majors	Minors	
Division One: Education					
Elementary Education		X			
Physical Education and Health		X	X	X	
Division Two: Fine Arts					
Art					X
Music	X		X	X	
Division Three: Language Arts					
Drama	X				
English					X
French					X
German					X
Language Arts (B.A.)			X	X	
Linguistics					X
Literature	X				
Spanish	X				
Speech Arts	X				
Division Four: Natural Science					
Biology		X	X	X	
Chemistry		X			
Home Economics		X			
Mathematics		X	X	X	
Physical Science-					
General Science (B.S.)			X	X	
Physics					X
Division Five: Religion					
Bible and Christian Education	X				
Religion and Philosophy	X				
Division Six: Social Science					
Economics and Business	X	X			
Geography					X
History	X				
Political Science	X	X			
Psychology	X	X			
Psychology-Sociology	X	X			
Social Studies (B.A./B.S.)			X	X	
Sociology	X				
Interdisciplinary:					
Christian Education,					
Music	X				
Communications					X

COURSE CHALLENGE PROGRAMS

ADVANCED PLACEMENT

A student who completes a college level course in high school under the Advanced Placement Program sponsored by the College Entrance Examination Board and who receives an acceptable score shall receive advanced placement. Present policy allows advanced placement with a score of three in American History, Biology, Chemistry, European History, French, German, Calculus AB or BC, Physics C, and Spanish. English requires a score of four.

A student with a score of four or five in any of the above fields may petition for college credit. Any student requesting advanced placement with or without credit must petition the dean of the faculty before the end of the first term in attendance.

COURSE CHALLENGE EXAMINATION

A student who believes he has learned the content of a required or prerequisite course may challenge the course and demonstrate by examination his readiness for advanced work. Upon paying the proper fee and making a satisfactory score, he may be released from the requirement of the course. Since no credit is thus given, he may enrich his total program in his major field or in electives.

CREDIT BY EXAMINATION

A student who has mastered the course content by independent study may earn up to 24 hours of course credit by examination when such examinations and courses are approved by the Dean's Council and the proper fee is paid.

PROFICIENCY TEST

A student may register for advanced courses in language, music, Bible, and certain other courses by passing a proficiency test in the area involved. The Proficiency Tests are usually a part of College Orientation and no special fees are charged.

A student from a non-English speaking nation may fulfill his language requirement by demonstrating proficiency in the English language.

PASS-NO PASS POLICY

At the time of registration only, upper division students may elect one course per term from upper division electives or upper division general education requirements on a pass-no pass basis.

Faculty mark regular grades for all students. The registrar converts the grade, giving credit for satisfactory work, which is "C-" or above. Pass-no pass courses do not count for grade point average. To remove a no pass, the course must be repeated on a satisfactory level.

INTENSIFIED STUDIES PROGRAM

The Intensified Studies Program, begun in 1958, offers to a select number of superior students an opportunity to seek knowledge more freely and responsibly through enriched major courses, reading and discussion of great books, and a significant project of independent research. In the sophomore year, the program consists of enrichment of the major courses taken under the direction of the student's advisor and participation in the

Phl 271, 272, 273 Sophomore Honors Colloquium. During the junior year, a project within the major is selected and begun. The student participates in the Phl 371, 372, 373 Junior Honors Colloquium.

The senior student brings his project to completion and public presentation. The advisor and program director will approve the project and determine the amount of credit, nine to fifteen term hours.

Occasional informal meetings are held for the entire group of students and faculty advisors in the Intensified Studies Program. Certain procedures are modified in order to provide academic release to students in the program and some scholarship aid is available.

Applicants are recommended for the program by the faculty, usually during the third term of the freshman year. They must demonstrate high scholarship (3.00 GPA minimum), must show superior test results, and must give evidence of a scholarly attitude. In some cases, entrance into the program may come later than the end of the freshman year.



The Curriculum

The curriculum of George Fox College is divided into 23 majors organized within six divisions. When registering for classes a student may indicate his general area of academic interest and begin study within the framework of this division. By the beginning of the junior year, a student must indicate the specific subject in which he will concentrate during the junior and senior years.

Major changes of emphasis (e.g., from one division to another) generally are more difficult to make after the sophomore year and often necessitate additional college work in summer sessions or a delay in graduation. Assistance in determining which division to enter is available from the faculty.

PREPROFESSIONAL COURSES

Any student looking forward to a professional career should remember that every professional course of a technical nature is built upon a foundation of preprofessional courses. Almost all professional schools require at least two years of general college work before admission; some require four years. It is therefore usually true that from two to four years' work may be taken at George Fox College and transferred to the professional school with no loss of credit. To insure accuracy in this matter, a student should request a catalog from the professional school of his choice to use as a guide in selecting preprofessional courses at George Fox College.

George Fox College provides four-year preprofessional education in the science professions (e.g., medicine, psychiatry, research); in the service professions (e.g., ministry, law, counseling); in the business professions (e.g., banking, management); in education on elementary, secondary, and higher levels; and in the performing arts (e.g., music, acting).

The college provides partial preprofessional education in other technical and professional careers in fields such as nursing, forestry, journalism, speech therapy, computer programming, engineering, and agriculture.

COURSE NUMBERING SYSTEM

Courses numbered 100-299 are lower division level and normally are open to freshmen and sophomores. Courses numbered 300-499 are upper division level and normally are open to juniors and seniors. A 300 numbered course may be open to sophomores. Exceptions may be made when prerequisites are met and general education requirements are being met on schedule.

Course numbers ending in zero (e.g., Ed 300) designate courses that are complete in one term; they may be scheduled for any term during the college year.

Course numbers ending in five (e.g., PE 105) designate courses that may be pursued for several terms under the same number, with all credits applicable, within stipulated limits.

Course numbers ending in one, two, and three, or seven, eight, and nine (e.g., Eng 111, 112, 113 or Eng 117, 118, 119) designate courses offered throughout the year. A continuing course may not be entered in the second or third terms without completing the previous term(s) or obtaining the permission of the instructor.

Course number 490 designates a Senior Seminar that is completed in one term; numbers 491, 492, 493 designate a Senior Seminar given each term.



Division I Education

Chairman: David V. Myton

Richard E. Allen, Nadine M. Brood, Robert C. Brown, Robert D. Gilmore, Lorin J. Miller, George H. Moore, James W. Stanley, Marjorie Weesner

Basic Objectives

1. To coordinate the resources of the college in providing a broad general education with academic specialization for the prospective teacher.
2. To provide professional preparation that develops in students the understandings, skills, and attitudes needed for a career in teaching at the elementary and secondary levels.
3. To provide instruction that fosters physical development of students and enhances the use of leisure time.

TEACHER EDUCATION

George Fox College is approved by the Oregon State System of Higher Education for the training of elementary teachers in conjunction with the Oregon College of Education. It is also accredited by the Oregon State Board of Education for the training of secondary teachers in specific fields. These programs lead to Oregon Basic Teaching Certificates, which are issued by the State Superintendent of Public Instruction upon recommendation of the teacher education institution.

Admission to Teacher Education

Admission to George Fox College does not guarantee admission to the teacher education program. A student applies for admission to teacher education during, or prior to, the third term of the sophomore year. Admission to the program is based upon ability to meet the criteria described in the "Guide for Teacher Education" available upon request.

Transfer Students in Education

Any student transferring to the teacher education program must meet the same requirements for admission as those who have entered at the usual point. For secondary teaching fields, work at George Fox College must include Ed 440 Teaching of (Special Methods) and Ed 450, 451 Supervised Teaching and Seminar. A minimum of forty-five term hours must be taken in residence at George Fox College for either the elementary or secondary programs.

A student transferring from a nonaccredited college to the secondary program of teacher education will be granted only conditional admission to the program until he demonstrates his ability by completing twelve term hours in his first teaching field and/or professional education with an average GPA of 2.50. Courses taken at nonaccredited colleges cannot be applied toward the elementary joint-degree program.

Admission to Supervised Teaching

Acceptance into the teacher education program does not guarantee assignment for supervised teaching. Application must be made for admission to supervised teaching by filing forms obtained from the education office not later than the first week of the term preceding the quarter for which the assignment is requested. Admission to supervised teaching is based upon ability to meet the criteria described in the "Guide for Teacher Education" available upon request.

ELEMENTARY TEACHING MAJOR (JOINT-DEGREE PROGRAM) B.S. DEGREE

Students who are admitted to teacher education and have completed satisfactorily the course of study at George Fox College may transfer to Oregon College of Education at Monmouth, Oregon, for their senior year. They receive the Bachelor of Science degree from George Fox College and are recommended to Oregon Board of Education for the Basic Teaching Certificate by Oregon College of Education.

MAJOR REQUIREMENTS

Sp 210 Fundamentals of Speech; Geo 101, 102 or 103 Introduction to Geography; Hst 330 Pacific Northwest; Bi 101, 102, 103 General Biology; GSc 101, 102, 103 Foundations of Science Sequence; Mth 111, 112, 113 Essentials of Mathematics; AA 311, 312 Creative Arts and Crafts; Mus 111, 112, 113 Music Fundamentals; Psy 310 Human Development; Ed 310 Historical Foundations of Education; HE 310 School Health Programs; plus the senior year at OCE. General education requirements must include: Eng 201, 202, 203 English Literature or Eng 251, 252, 253 World Literature and Hst 101, 102, 103 Civilizations for cultural legacy; and Psy 201 General Psychology and Soc 201 Principles of Sociology or Eco 201 Principles of Economics for systems of interpretation.

MINOR REQUIREMENTS

One minor of 36 term hours (which may include the general education hours in the selected field) must be completed from the following: art, French, humanities, mathematics, music, physical education, science,

social studies, Spanish. Specific courses meeting these minor requirements are indicated in the "Guide for Teacher Education" available upon request.

TEACHER AIDE CONCENTRATION

Students wishing to qualify for noncertificated teacher aide positions in elementary schools are advised to complete the two-year program outlined in the "Guide for Teacher Education" available upon request.

SECONDARY TEACHER EDUCATION

Under Oregon school law, five years of collegiate preparation including specified work in education and in subject fields are required for a standard teaching certificate. However, graduates of accredited colleges and universities who have completed an approved four-year teacher education program may be granted, upon graduation, a basic certificate, which is valid for three years. For renewal of the basic certificate after three years, twenty-four term hours of work toward the completion of the fifth-year program are required.

Teaching minors provide additional teaching fields for secondary teachers. Students seeking certification in a teaching minor must also complete an approved teaching major. Teaching majors indicated by an asterisk (*) are approved by the Oregon Board of Education and lead to the Oregon Basic Teaching Certificate.

Professional Education

SECONDARY TEACHING REQUIREMENTS

Ed 310 Historical Foundations of Education; Ed 320 Psychological Foundations of Education; Ed 330 Principles of Secondary Education; Ed 350 Instructional Media; Psy 310 Human Development; Ed 420 September Participation; Ed 440 Teaching of (Special Methods); Ed 450, 451 Supervised Teaching and Seminar. General education requirements must include: Psy 201 General Psychology for Systems of Interpretation.

Biology*

B.S. Degree

TEACHING MAJOR REQUIREMENTS

Fifty-four term hours are required including: Bi 101, 102, 103 General Biology; Bi 310 Embryology; Bi 311, 312 Plant Morphology; Bi 320 Human Anatomy or Bi 321 or 322 Comparative Vertebrate Anatomy; Bi 330 Physiology or Bi 340 Plant Physiology; Bi 350 Genetics; Bi 360 Ecology; Bi 430 Evolution; Bi 440 Teaching of Biology; Bi 491, 492, 493 Senior Seminar; two to five upper division term hours in biology. General education requirements must include: Ch 111, 112, 113 General Chemistry for cultural legacy; and Mth 121 College Algebra and Ch 331, 332 Organic Chemistry for symbolics.

TEACHING MINOR REQUIREMENTS

Thirty-nine term hours are required including: Bi 101, 102, 103 General Biology; Bi 310 Embryology; Bi 320 Human Anatomy or Bi 321 or 322 Comparative Vertebrate Anatomy; Bi 330 Physiology or Bi 340 Plant Physiology; Bi 350 Genetics; Bi 360 Ecology; Bi 430 Evolution; Bi 440 Teaching of Biology; three upper division term hours in biology.

Health and Physical Education*

B.S. Degree

TEACHING MAJOR REQUIREMENTS

Sixty-five term hours are required including: HE 100 Health Education; HE 200 Personal Health Problems; HE 210 Community Health Problems; HE 310 School Health Problems; HE 320 Mental Health; PE 200 History and Principles of Physical Education; PE 221-229 Professional Activities; PE 230 First Aid; PE 320 Adaptive and Corrective Physical Education; PE 330 Organization and Administration of Physical Education; PE 360 Kinesiology; PE 400 Tests and Measurements in Physical Education; PE 430 Exercise Physiology; PE 440 Teaching of Physical Education; PE 470 Philosophy of Physical Education; PE 475 Field Experience in Health, Physical Education, or Recreation; eight upper division term hours in health and physical education. General education requirements must include: Bi 101, 102, 103 General Biology for cultural legacy; and Bi 320 Human Anatomy, Bi 330 Physiology, and Psy 340 Statistical Procedures for symbolics.

TEACHING MINOR REQUIREMENTS

Fifty-five term hours are required including: Bi 320 Human Anatomy; Bi 330 Physiology; HE 100 Health Education; HE 200 Personal Health Problems; HE 210 Community Health Problems; HE 310 School Health Programs; PE 200 History and Principles of Physical Education; PE 221-229 Professional Activities; PE 230 First Aid; PE 330 Organization and Administration of Physical Education; PE 440 Teaching of Physical Education; PE 470 Philosophy of Physical Education.

Language Arts

B.A. Degree

TEACHING MAJOR REQUIREMENTS

Forty-six term hours of core courses are required including: Eng 300 Advanced Composition; Eng 301, 302, 303 English Literature; Eng 311, 312 American Literature; Eng 334 Nature of the English Language; Eng 381 or 382 or 383 Shakespeare; Eng 440 Teaching Language Arts; Eng 444 Literature for Adolescents; Eng 460 Teaching Developmental Reading; Eng 473 Twentieth Century Novel; Eng 485 Selected Topics: Literary Criticism; Sp 210 Fundamentals of Speech; Sp 230 Oral Interpretation of Literature. General education requirements must include: Eng 251, 252, 253 World Literature for cultural legacy and two years of a foreign language or its equivalent.

Fifteen term hours in addition to the core are required for the norm in literature, writing, and language including one course from each category. Select from: (A) Eng 310 English Novel; Eng 314 Early English Literature; Eng 320 Eighteenth Century English Literature; Eng 381 or 382 or 383 Shakespeare; (B) Eng 430 English Romantic Poets of the Early Nineteenth Century; Eng 474 Twentieth Century Poetry; Eng 350 Milton; Eng 360 Tennyson and Browning; Eng 370 Chaucer and His Age; Eng 390 Spenser; Eng 485 Selected Topics; (C) Eng 200 Techniques of Journalism; Eng 330 Versification; Eng 340 English Language Development; L 300 Linguistics.

Twenty-four term hours in addition to the core are required for the norm in speech-drama/literature, writing, and language. Twelve term

hours must be taken from each group including one course in each category. Select from: *Group I*—(A) Dr 120 Fundamentals of Acting; Dr 220/320 Advanced Acting; (B) Dr 125/325 Theater Laboratory; Dr 140/340 Theater Seminar; Dr 331 or 332 or 333 Play Production; Sp 260 Argumentation and Debate; Sp 135/335 Applied Forensics; (C) Dr 254 Introduction to Drama; Dr 420 History of Dramatic Thought; Sp 410 History and Criticism of Public Address; Sp 420 Philosophy of Rhetoric; (D) Sp 110 Voice and Diction; Sp 250 Phonetics; Sp 320 Speech Science; Sp 400 Speech Pathology; Sp 495 Special Study; *Group II*—(A) Eng 381 or 382 or 383 Shakespeare; Eng 324 Contemporary Drama; (B) Eng 310 English Novel; Eng 314 Early English Literature; Eng 320 Eighteenth Century English Literature; (C) Eng 430 English Romantic Poets of the Early Nineteenth Century; Eng 474 Twentieth Century Poetry; Eng 350 Milton; Eng 360 Tennyson and Browning; Eng 370 Chaucer and His Age; Eng 390 Spenser; Eng 485 Selected Topics.

TEACHING MINOR REQUIREMENTS

Forty-nine term hours are required including: Eng 251, 252, 253 World Literature; Eng 300 Advanced Composition; Eng 301, 302, 303 English Literature; Eng 311, 312 American Literature; Eng 444 Literature for Adolescents; Eng 381 or 382 or 383 Shakespeare; Eng 473 Twentieth Century Novel or Eng 474 Twentieth Century Poetry; Eng 334 Nature of the English Language; Eng 440 Teaching Language Arts; Eng 460 Teaching Developmental Reading; Sp 210 Fundamentals of Speech.

Mathematics*

B.S. Degree

TEACHING MAJOR REQUIREMENTS

Fifty-five term hours are required including: Mth 121 College Algebra; Mth 122, 123 Calculus with Analytic Geometry; Mth 201, 202 Multivariable Calculus; Mth 321, 322 Higher Algebra; Mth 331 Probability and Statistics; Mth 411, 412 Modern Geometry; Mth 440 Teaching of Mathematics; seventeen upper division term hours in mathematics. General education requirements must include Ph 201, 202, 203 General Physics for symbolics.

TEACHING MINOR REQUIREMENTS

Thirty-two term hours are required for the norm in Elementary Algebra and Geometry including: Mth 121 College Algebra; Mth 122, 123 Calculus with Analytic Geometry; Mth 201, 202 Multivariable Calculus; Mth 321, 322 Higher Algebra; Mth 441 Modern Geometry; Mth 440 Teaching of Mathematics.

Fifteen term hours are required for the norm in Pre-Algebra and General Mathematics including: Mth 121 College Algebra; Mth 122, 123 Calculus with Analytic Geometry; Mth 440 Teaching of Mathematics.

Music*

B.A. Degree

TEACHING MAJOR REQUIREMENTS

Sixty-two term hours are required including: Mus 117, 118, 119 Introduction to Music Literature; Mus 201, 202, 203 Elementary Conducting; Mus 221, 222, 223 Theory II; Mus 311, 312, 313 Music History;

Mus 320 Form and Analysis; Mus 410 Instrumentation and Orchestration; Mus 420 Composition or Mus 310 Counterpoint; Mus 430 Instrumental Conducting or Mus 450 Choral Conducting; Mus 441, 442, 443 Public School Music Methods; five term hours of Mus 210, 230, 250, 260, 270 Techniques; two years of private lessons ($\frac{1}{2}$ recital); large ensemble every term; piano proficiency. General education requirements must include: Mus 121, 122, 123 Theory I for symbolics.

TEACHING MINOR REQUIREMENTS

Fifty-eight term hours are required including: Mus 117, 118, 119 Introduction to Music Literature; Mus 121, 122, 123 Music Theory I; Mus 201, 202, 203 Elementary Conducting; Mus 221, 222, 223 Music Theory II; Mus 311, 312, 313 Music History; Mus 441, 442, 443 Public School Music Methods; three to six term hours of large ensemble; two years of private lessons; piano proficiency.

Physical Science-General Science

B.S. Degree

TEACHING MAJOR REQUIREMENTS

Sixty term hours are required including: Bi 101, 102, 103 General Biology; Ch 111, 112, 113 General Chemistry; Ph 201, 202, 203 General Physics; GSc 310, 320, 330 Essentials of Geology, Meteorology, Astronomy; GSc 440 Teaching of Science; twelve upper division term hours in science. General education requirements must include: Mth 121 College Algebra and Mth 122, 123 Calculus with Analytic Geometry for symbolics.

TEACHING MINOR REQUIREMENTS

Forty-eight term hours are required including: Bi 101, 102, 103 General Biology; Ch 111, 112, 113 General Chemistry; Ph 201, 202, 203 General Physics; GSc 310, 320, 330 Essentials of Geology, Meteorology, Astronomy; GSc 440 Teaching of Science.

Social Studies

B.A. or B.S. Degree

TEACHING MAJOR REQUIREMENTS

Sixty term hours are required including: Hst 201, 202, 203 United States; Geo 101, 102, 103 Introduction to Geography; Eco 202, 203 Principles of Economics; PSc 210 American Government; SS 440 Teaching Social Studies; SS 490 Social Science Seminar; twelve upper division term hours plus senior seminar in one of the fields. General education requirements must include: Hst 101, 102, 103 Civilizations for cultural legacy; and Eco 201 Principles of Economics and Soc 201 Principles of Sociology for systems of interpretation.

TEACHING MINOR REQUIREMENTS

Fifty-six term hours are required including: Hst 101, 102, 103 Civilizations; Hst 201, 202, 203 United States; Geo 101, 102, 103 Introduction to Geography; PSc 210 American Government; Eco 201, 202, 203 Principles of Economics; Soc 201 Principles of Sociology or Soc 301 Cultural Anthropology; SS 440 Teaching of Social Studies; nine upper division term hours in social science.

EDUCATION

Lower Division

Ed 175/375 FIELD EXPERIENCE

1 hour, maximum 6 hours. A laboratory experience consisting of work as a teacher's aide in the classroom of a public school for a minimum of thirty-five hours during the term. Teacher aide assignments will be made and supervised by the director of teacher education and school district personnel. Prerequisite: Instructor's permission.

Upper Division

Ed 310 HISTORICAL FOUNDATIONS OF EDUCATION

4 hours. Intended to introduce the heritage of American educational concepts, practices, and organization in order to develop understanding of the purpose and function of the school in the democratic society.

Ed 320 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION

4 hours. A study of psychological basis of learning processes including individual and group differences. Intended to relate the student's understanding of factors affecting learning, thinking, memory, transfer of training, use of learning experiences, learning climate, and other pertinent factors to modern classroom practices. Identical with Psy 320. Prerequisite: Psy 201 General Psychology, or permission of the instructor.

Ed 330 PRINCIPLES OF SECONDARY EDUCATION

2 hours. A study of general principles of education methodology. Designed to develop competency in setting learning goals, planning teaching units, managing classroom activities, reporting pupil progress, and other related tasks. Prerequisite: Admission to the teacher education program, Ed 310 Historical Foundations of Education, or permission of the instructor.

Ed 350 INSTRUCTIONAL MEDIA

2 hours. Designed to prepare the prospective teacher as well as the professional in many other fields to select, produce, and use instructional media such as pictures, posters, bulletin boards, transparencies, slides, recordings, films, television, and programmed instruction to implement learning. Two lectures and one laboratory period per week. Identical with CEd 350.

Ed 410 GUIDANCE AND COUNSELING

5 hours. Identical with Psy 410. See Division VI for description of course and prerequisite.

Ed 420 SEPTEMBER PARTICIPATION

0 hours. A two-week period of observation in the home high school of the teacher education candidate at the opening of the senior year. Intended to provide a laboratory experience immediately prior to the senior sequence of professional education courses. Admission by application only.

Ed 440 TEACHING OF (SPECIAL METHODS)

3 hours. A course in the special methods of instruction appropriate to the particular teaching major or minor emphasizing procedures, teaching

techniques, and materials. Identical with Eng 440, Bi 440, Mth 440, GSc 440. Prerequisite: Ed 330 Principles of Secondary Education.

Ed 450 SUPERVISED TEACHING

12 hours. A laboratory experience in which principles and methods of teaching may be employed under supervision. A full-day, full-term assignment in which direct responsibility for planning and implementing learning activities is provided. Admission by application only.

Ed 451 SUPERVISED TEACHING SEMINAR

3 hours. Designed to provide liaison between the college and the public school during the supervised teaching experience. Teaching methods, professional ethics, and self-analysis of teaching behavior will be discussed. Must be taken concurrently with Ed 450 Supervised Teaching. Admission by application only.

Ed 460 TEACHING OF DEVELOPMENTAL READING

3 hours. A course designed to develop understanding of, and competencies in, a program of pupil progress and growth in reading from kindergarten through grade twelve. Deals with such basic aspects as readiness, skills in diagnosing pupils' needs, the interrelatedness of reading with other language understandings, study skills, reading rate, and comprehension. Identical with Eng 460.

Ed 470 THE JUNIOR HIGH SCHOOL

3 hours. Offered 1971-72 and alternate years. The history, philosophy, curriculum, and rationale for the junior high school in the American educational scheme. Also takes a look at the adolescent and his needs—suggests some ways of meeting these needs. Required for the Junior High School Certificate.

Ed 485 SELECTED TOPICS

1-3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

HEALTH EDUCATION

Lower Division

HE 100 HEALTH EDUCATION

2 hours. The basic scientific principles of healthful living applied to problems confronting the college student. Emphasis on nutrition; exercise, rest, and sleep; smoking and health; selection of health services; and family life.

HE 200 PERSONAL HEALTH PROBLEMS

2 hours. A study of communicable and noncommunicable disease with emphasis on the prevention and control of the major health problems. Also stresses observation and recognition of deviations in student health.

HE 210 COMMUNITY HEALTH PROBLEMS

2 hours. A study of community health problems with particular emphasis on environmental and occupational health, drug abuse, child welfare, suicide, venereal disease, population explosion, and accident prevention.

Upper Division

HE 300 NUTRITION

4 hours. Offered 1972-73 and alternate years. Identical with HEc 200/300. See Division IV for description of course and prerequisites.

HE 310 THE SCHOOL HEALTH PROGRAM

3 hours. Offered 1971-72 and alternate years. Purposes and procedures of health service and instruction in the schools. Special emphasis on construction of health teaching units and selection of methods and materials.

HE 320 MENTAL HEALTH

2 hours. Introduction to the study of mental health and illness, including personality development and emotional adjustment. Deals with causes, treatment, and prevention of mental illness.

HE 340 MARRIAGE AND FAMILY

3 hours. Offered 1972-73 and alternate years. Identical with Soc 340. See Division VI for description of course and prerequisite.

HE 485 SELECTED TOPICS

3 hours. Identical with PE 485. See below for course description and prerequisite.

PHYSICAL EDUCATION B.S. DEGREE

General Requirements in Physical Education

Six hours in physical education activity courses are required for graduation. These may be selected from PE 105/305 (men) or PE 115/315 (women). PE 125 (men) or PE 135 (women) Adapted Activities are offered to meet the requirement for those who cannot participate in the 105/305 or 115/315 sections because of physical limitations. Up to three hours may be satisfied by proficiency testing or may be satisfied by completion of twelve hours of PE 221-229 Professional Activities upon consent of instructor.

Major Requirements

A student must complete a minimum of sixty-five term hours in health and physical education, thirty-eight of which must be upper division courses, including HE 100 Health Education, HE 200 Personal Health Problems, HE 210 Community Health Problems, HE 310 School Health Problems, HE 320 Mental Health, PE 200 History and Principles of Physical Education, PE 221-229 Professional Activities, PE 230 First Aid, PE 320 Adaptive and Corrective Physical Education, PE 330 Organization and Administration of Physical Education, PE 360 Kinesiology, PE 400 Tests and Measurements in Physical Education, PE 430 Exercise Physiology, PE 440 Teaching of Physical Education, PE 470 Philosophy of Physical Education, PE 475 Apprenticeship in Physical Education. It is recommended that courses selected to satisfy general education requirements include Bi 101, 102, 103 General Biology, Bi 320 Human Anatomy, Bi 330 Physiology, and Psy 340 Statistical Procedures.

See page 34 for description of secondary teaching major.

Lower Division

PE 105/305 PHYSICAL EDUCATION ACTIVITIES

1 hour. Six hours of credit required of men for graduation. Instruction in fundamental skills, rules, and strategy. Personal selection may be made from the following activities: archery, football, basketball, golf, volleyball, softball, wrestling, tumbling, apparatus activities, soccer, badminton, bowling, tennis, swimming, weight training, track and field, and rhythmic activities. Each activity may be repeated once as PE 305.

PE 115/315 PHYSICAL EDUCATION ACTIVITIES

1 hour. Six hours of credit required of women for graduation. Instruction in fundamental skills, rules, and strategy. Personal selection may be made from the following activities: apparatus activity, archery, badminton, basketball, body mechanics, bowling, field sports, golf, recreational games, rhythmic activities, softball, swimming, tennis, track, tumbling, and volleyball. Each activity may be repeated once as PE 315.

PE 125/135 ADAPTED ACTIVITIES

1 hour. Six hours of credit required for graduation. Offered for those men (125) and women (135) who are unable to participate in regular physical education activities because of physical limitation. A statement from the student's physician is required.

PE 145, 245, 345, 445 ATHLETICS

1 hour. Participation on athletic teams applicable to meeting the general education requirements in physical education. Not more than two hours may be earned in any sport nor more than three hours applied toward general education.

PE 200 HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION

3 hours. A survey of the development of physical education with emphasis upon fundamental principles and modern programs.

PE 221 M/W PROFESSIONAL ACTIVITIES

2 hours. Advanced instruction in skills, teaching techniques, rules, and strategy for basketball and volleyball.

PE 222 M/W PROFESSIONAL ACTIVITIES

2 hours. Advanced instruction in skills, teaching techniques, rules, and strategy covering touch football and soccer for men and speedball and field hockey for women.

PE 223 M/W PROFESSIONAL ACTIVITIES

2 hours. Advanced instruction in skills, teaching techniques, spotting, and safety factors involved in tumbling and gymnastics.

PE 224 CO PROFESSIONAL ACTIVITIES

2 hours. Advanced instruction in skills, teaching techniques, rules, and strategy for softball and track.

PE 225 CO PROFESSIONAL ACTIVITIES

2 hours. Advanced instruction in skills, teaching techniques, rules, and strategy covering badminton, bowling, and handball for men or recreational games for women.

PE 226 CO PROFESSIONAL ACTIVITIES

2 hours. Advanced skills and game techniques in tennis, golf, and archery with tournament organization and administration applied.

PE 227 CO PROFESSIONAL ACTIVITIES

2 hours. Advanced skills in aquatics dealing with water safety and performance strokes as well as water games.

PE 228 M/W PROFESSIONAL ACTIVITIES

2 hours. Advanced instruction in skills, teaching techniques, and strategy relating to wrestling and conditioning for men and movement, body mechanics, and conditioning for women.

PE 229 CO PROFESSIONAL ACTIVITIES

2 hours. Advanced skills in folk rhythms, international folk games, and basic forms of locomotion.

PE 230 SAFETY AND FIRST AID

3 hours. Safety education and instruction in first aid, leading to the standard and advanced American Red Cross certificate.

Upper Division

PE 300 ORGANIZATION AND ADMINISTRATION OF INTRAMURAL PROGRAMS

2 hours. A study of the construction of intramural programs including objectives, methods, materials, and typical problems. Laboratory experience in the college intramural program.

PE 320 ADAPTIVE AND CORRECTIVE PHYSICAL EDUCATION

2 hours. Special instruction in therapeutic applications of physical education to the handicapped student.

PE 330 THE ORGANIZATION AND ADMINISTRATION OF HEALTH AND PHYSICAL EDUCATION

3 hours. Instruction in the planning and implementing of programs of physical education including designing the curriculum; budgeting and purchasing; and using buildings, grounds, and recreational areas. Professionalism in conduct and ethics is stressed.

PE 340 M/W RULES AND OFFICIATING

2 hours. Advanced training and practice in officiating basketball, football, and baseball for men and field hockey, volleyball, basketball, and softball for women, with emphasis on mechanics and professional ethics.

PE 350 THE CARE AND PREVENTION OF ATHLETIC INJURIES

2 hours. A course dealing with the prevention of, first aid for, and therapy for athletic injuries. Special attention is given to the organization and management of the training room.

PE 360 KINESIOLOGY

3 hours. A detailed study of bone and muscle relationships. A scientific approach to muscle movement related to all physical activities. Prerequisite: Bi 320 Human Anatomy.

PE 370 CAMP LEADERSHIP

3 hours. Instruction in camp leadership emphasizing methods and materials needed in administration of camping programs. Relationship to crafts, outdoor activities, and recreational sports and games is stressed.

PE 380 RECREATIONAL LEADERSHIP

3 hours. An application of leadership techniques, methods, and materials to recreational activities for home, school, church, camp, and community.

PE 400 TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION

3 hours. Emphasis is given to the importance of evaluation in programs of physical education. Testing procedures, standard tests, physical examinations, and evaluation activities are discussed. Prerequisite: Psy 340 Statistical Procedures.

PE 410 COACHING OF FOOTBALL

2 hours. An analysis of systems of play, principles of offense and defense, and strategies of the game. The organization of practice sessions, administration of games, and techniques of scouting are stressed.

PE 420 COACHING OF BASKETBALL

2 hours. An analysis of systems of play, principles of offense and defense, and strategies of the game. The organization of practice sessions, administration of games, and techniques of scouting are stressed.

PE 430 EXERCISE PHYSIOLOGY

3 hours. An application of physiology to body movement and exercise. Muscle chemistry and fatigue are studied. Prerequisite: Bi 331, 332 Physiology.

PE 440 TEACHING OF PHYSICAL EDUCATION

5 hours. An analysis of objectives, curriculum construction and program planning, unit and lesson plans, instructional methods, and evaluation procedures. Prerequisite: Ed 330 Principles of Secondary Education.

PE 450 COACHING OF BASEBALL

2 hours. A study of systems of play, principles of offense and defense, and strategies of the game. The organization of practice sessions, administration of games, and the techniques of scouting are stressed.

PE 460 COACHING OF TRACK AND FIELD

2 hours. A study of the principles of coaching each event. The organization of practice sessions and the strategy for and administration of meets.

PE 470 PHILOSOPHY OF PHYSICAL EDUCATION

3 hours. Investigation of basic philosophy and modern trends of thought. An evaluation of the influence of physical education programs on the individual student.

PE 475 FIELD EXPERIENCE IN HEALTH, PHYSICAL EDUCATION, AND RECREATION

1-5 hours. Supervised experience in health, physical education, or recreation institutions. Prerequisite: Consent of instructor.

PE 485 SELECTED TOPICS

3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies. Identical with HE 485.

PE 495 SPECIAL STUDY

1-3 hours. Individual research under the guidance of the faculty. Prerequisite: Consent of instructor.

Division II

Fine and Applied Arts

Chairman: Dennis Hagen

James E. Annala, Jerry H. Friesen, Ruth Gilman, Joseph E. Gilmore,
David Hamlin, David J. Howard, Robert E. Lauinger, Peter C. Snow

Basic Objectives

1. To give students an opportunity to acquire an appreciation of art, a knowledge of art fundamentals, and a basic foundation for further study in art.
2. To give all students an opportunity to acquire an appreciation of music through chapel programs, recitals, and concerts.
3. To give all students an understanding of music through general courses such as Survey of Music, Applied Music, Music Ensembles.
4. To equip talented students with skills needed to pursue a career in music.

ART

GE 120 SURVEY OF ART

2 hours. A course that explores the cultural and historic significance of architecture, painting, sculpture, and other arts.

AA 311, 312 CREATIVE ARTS AND CRAFTS

3 hours each term. Techniques for development of an art program in the elementary classroom including: methods, materials, and a wide variety of media.

AA 210, 220, 230 CERAMICS

2 hours. To be taken in sequence. Offered on sufficient demand. Individual projects with emphasis on design and form. Practice in ceramic techniques and use of related materials: hand building, molding, glazing, and firing.

AA 211, 212, 213 STUDIO ART

2 hours each term. Fall term: drawing with pencil, charcoal, and pen and ink. Winter and spring terms: painting, sculpture, ceramics, printing.

AA 231, 232/331, 332 LETTERING

2 hours each term. Offered on sufficient demand. Work with flat-edged pen, brush, and speed-ball pen; a study of italic letter forms and an introduction to other letter forms; and an analysis of problems of layout and design.

AA 495 SPECIAL STUDY

1-3 hours. Special projects by permission of the instructor.

MUSIC B.A. DEGREE

Major Requirements

A student must complete a minimum of fifty-four term hours in music in addition to private lessons and ensemble classes. Students must enroll in piano class until they pass a proficiency test. Mus 121, 122, 123 Theory I fulfills the symbolics requirement in general education. Required courses: Mus 117, 118, 119 Introduction to Music Literature; Mus 221, 222, 223 Theory II; Mus 201, 202, 203 Elementary Conducting; Mus 311, 312, 313 Music History; Mus 310 Counterpoint; Mus 320 Form and Analysis; Mus 420 Composition; and Mus 491, 492, 493 Senior Seminar. Students must enroll in an applied lesson and a large ensemble each term they are registered as a major.

See pages 35-36 for description of requirements for secondary teaching majors and minors.

INTERDISCIPLINARY MAJOR

CHRISTIAN EDUCATION AND MUSIC

An interdisciplinary major may be elected from the fields of Christian Education and Music. See Division V for description.

Minor Requirements

A student must complete a minimum of twenty-one term hours in addition to two years of private lessons and ensemble experience. Required courses: Mus 117, 118, 119 Introduction to Music Literature; Mus 121, 122, 123 Theory I; and either Mus 201, 202, 203 Elementary Conducting or three hours of music elective.

Applied Music

Individual instruction is offered in voice, piano, organ, strings, woodwinds, brass, and percussion. Private lessons carry one term hour credit for one lesson per week. Music majors are required to enroll in an applied lesson each term they are listed as a major in the Bachelor of Arts program. Music teaching majors must enroll in applied lessons for two years. The former must give a full recital in the senior year; the latter must give a half recital either in the junior or senior year. Music majors or music teaching majors may take two applied lessons per term for the price of one. All students in applied music lessons are expected to perform

periodically in class musical programs and in public student recitals. Examinations are given by a committee from the music faculty at the end of each term.

Mus 105, 205, 305, 405 VOICE

1 hour. Study of proper voice production with emphasis on posture, breathing, and resonance. Studies from the standard repertoires including English songs, Italian classics, German lieder, French art songs, oratorio and operatic arias, and selected contemporary works.

Mus 105, 205, 305, 405 PIANO

1 hour. Technical exercises, scales and arpeggios in various rhythms, etudes of varying difficulty such as those by Duvernoy, Burgmuller, Heller, Czerny, and Clementi. Preludes and fugues, suites and partitas, and Bach's inventions. Sonatas by Mozart, Haydn, Beethoven, and Schubert. Selected concertos. Compositions by romantic and modern composers.

Mus 105, 205, 305, 405 ORGAN

1 hour. Basic study of pedal and manual techniques. Standard works from the Baroque, Classic, Romantic, and Modern periods.

Mus 105, 205, 305, 405 STRINGS

1 hour. Instruction on violin, viola, cello, and string bass. Basic fundamentals, posture, bow and arm techniques, shifting, and vibrato. Scales and arpeggios. Representative studies. Sonatas and concertos. Orchestral studies.

Mus 105, 205, 305, 405 WOODWINDS

1 hour. Instruction on flute, clarinet, oboe, and bassoon. Tone production, scales, and arpeggios in various articulations. Technical studies. Works from the standard solo repertoire. Orchestral studies.

Mus 105, 205, 305, 405 BRASS

1 hour. Instruction on trumpet, French horn, trombone, baritone, and tuba. Emphasis upon breath control, tone production, embouchure development, and tonguing techniques. Technical studies and solo works selected from representative composers with respect to the student's performing level.

Mus 105, 205, 305, 405 PERCUSSION

1 hour. Instruction on snare drum and various percussion instruments. Reference study of all percussion instruments used in concert band and symphony orchestra performances.

Ensemble Music

Mus 115, 215, 315, 415 ORATORIO CHOIR

$\frac{1}{2}$ hour. The oratorio choir is open to all college students and performs sacred music for large choirs. Performances are accompanied by the college orchestra.

Mus 125, 225, 325, 425 A CAPPELLA CHOIR

1 or $\frac{1}{2}$ hour. The a cappella choir consists of students selected by audition. Representative choral music from the Renaissance to the twentieth century is studied. An extended choir tour is made each year.

Mus 125s, 225s, 325s, 425s STAGE PERFORMANCE CHOIR

1 or $\frac{1}{2}$ hour. This course is for the training of music students in the performance of staged musical dramas, both opera and Broadway musicals. One major production will be presented each year in addition to selected scenes from several works.

Mus 135, 235, 335, 435 VOCAL ENSEMBLE

1 or $\frac{1}{2}$ hour. This ensemble performs in winter and spring terms for community organizations.

Mus 145, 245, 345, 445 CONCERT BAND

1 or $\frac{1}{2}$ hour. Standard band works are performed at three annual concerts. An extended tour is made each year. Admission by consent of the instructor.

Mus 145s, 245s, 345s, 445s STAGE BAND

$\frac{1}{2}$ hour. A course to train music educators in stage band literature through performance for athletic events and public concerts.

Mus 155, 255, 355, 455 ORCHESTRA

1 or $\frac{1}{2}$ hour. Literature for the small orchestra is performed at two formal concerts in the spring. The orchestra also provides the accompaniment for the oratorio choir in the fall.

Mus 165, 265, 365, 465 INSTRUMENTAL ENSEMBLE

$\frac{1}{2}$ hour. Each ensemble must have at least three members. Music performed will be chosen in cooperation with the instrumental faculty.

Music Theory and Literature

Lower Division

GE 110 SURVEY OF MUSIC

2 hours. A survey of the important historical periods of music designed to acquaint the liberal arts student with the major composers and their representative works. Identical with Mus 112 Music Fundamentals.

Mus 111, 112, 113 MUSIC FUNDAMENTALS

2 hours each term. Fall term, Mus 111 elementary theory; a study of the principles of notation, melody, rhythm, scales, and chords. Winter term, Mus 112; identical with GE 110 Survey of Music. Spring term, Mus 113; methods for teaching music in the elementary school.

Mus 117, 118, 119 INTRODUCTION TO MUSIC LITERATURE

2 hours each term. A course to develop music appreciation through extensive listening to standard works. Study of vocal and instrumental forms and styles of the various periods.

Mus 121, 122, 123 THEORY I

4 hours each term. An integrated course in basic musicianship, ear training, sight singing, dictation, keyboard harmony, analysis, and part writing. Includes all diatonic harmonies and simple modulations.

Mus 131, 132, 133 CLASS PIANO I

1 hour each term. Elementary class instruction in piano. Required of music majors unless waived by demonstration of acceptable proficiency.

Mus 201, 202, 203 ELEMENTARY CONDUCTING

1 hour each term. Emphasis on mastery of simple conducting patterns, cues, expressive gestures, and common problems in leading group singing and small instrumental ensembles.

Mus 210 STRING TECHNIQUES

1 hour. Elementary class instruction in the techniques of playing stringed instruments (one term of violin and one of cello are offered) to provide adequate teaching knowledge.

Mus 221, 222, 223/321, 322, 323 THEORY II

4 hours each term. A continuation of Theory I. Includes chromatic harmonies and remote modulations. Introduction to twentieth century harmonic usage. Creative work is required. Prerequisite: Mus 121, 122, 123 Theory I.

Mus 231, 232, 233 CLASS PIANO II

1 hour each term. A continuation of Piano Class I. Required of music majors unless waived by demonstration of acceptable proficiency.

Mus 230 WOODWIND TECHNIQUES

1 hour. Elementary class instruction in the techniques of playing woodwind instruments (one term of clarinet and one of flute are offered) to provide adequate teaching knowledge.

Mus 250 BRASS TECHNIQUES

1 hour. Elementary class instruction in the techniques of playing brass instruments to provide adequate teaching knowledge.

Mus 260 PERCUSSION TECHNIQUES

1 hour. Elementary class instruction in the techniques of playing percussion instruments to provide adequate teaching knowledge.

Mus 270 VOCAL TECHNIQUES

1 hour. Elementary class instruction in the techniques of singing to provide adequate teaching knowledge. Recommended for the beginning voice student to gain a knowledge of basic singing techniques.

Mus 280 KEYBOARD PEDAGOGY

1 hour. Fundamentals of teaching keyboard instruments. Observation and some actual teaching experience are required in the piano lab.

Upper Division

Mus 311, 312, 313 MUSIC HISTORY

3 hours each term. A study of the development of music from antiquity through the twentieth century. Comparisons are made to the development of the other arts. Concentrated study of music literature emphasizing the change in musical styles during the different historical periods. Prerequisites: Mus 121, 122, 123 Theory I and Mus 117, 118, 119 Introduction to Music Literature.

Mus 310 COUNTERPOINT

3 hours. Principles of eighteenth century polyphony. Detailed study of the works of J. S. Bach and his contemporaries. Original composition required. Recommended for all music majors.

Mus 320 FORM AND ANALYSIS

3 hours. Detailed study of the structural components of music, including the motive, phrase, and period. Application to principal contrapuntal and homophonic forms of the Classic, Romantic, and Modern periods. Prerequisites: Mus 121, 122, 123 Theory I and Mus 221, 222, 223 Theory II.

Mus 331, 332, 333 KEYBOARD IMPROVISATION

1 hour each term. Skills and techniques involving keyboard improvisation. Lecture, demonstration, and group participation in piano lab. Prerequisite: Theory I and intermediate keyboard proficiency.

Mus 340 CHURCH MUSIC

3 hours. A study of the place, function, and contribution of music in the church with emphasis on current trends in contemporary church music. Recommended for any student anticipating a church vocation.

Mus 410 INSTRUMENTATION AND ORCHESTRATION

3 hours. A study of the instruments of the orchestra and band including their ranges, characteristics, and capabilities. Practical application of the principles of arranging and scoring for orchestra-band instrumental combinations. Prerequisites: Mus 121, 122, 123 Theory I and Mus 221, 222, 223 Theory II.

Mus 420 COMPOSITION

3 hours. Detailed study of representative works in the contemporary musical idiom and creative writing in the smaller forms. Prerequisites: Mus 121, 122, 123 Theory I and Mus 221, 222, 223 Theory II.

Mus 430 INSTRUMENTAL CONDUCTING

2 hours. Designed to acquaint the student with the intricacies of directing band, orchestra, and instrumental ensembles. Basic conducting patterns are reviewed, literature of the aforementioned ensembles is covered, and some practical experience is given with the college band and small instrumental ensembles.

Mus 441, 442, 443 PUBLIC SCHOOL MUSIC METHODS

3 hours, fall term; 4 hours, winter term. A certain degree of piano proficiency is required. A survey of aims, methods, materials, and repertoire used in teaching music in elementary and secondary schools. Prerequisite: Ed 330 Principles of Secondary Education.

Mus 450 CHORAL CONDUCTING

2 hours. Designed primarily for music majors. Advanced work in traditional and modern patterns of conducting, syncopation, cueing, and expressive gestures. Practical experience in directing the a cappella choir is provided.

Mus 460 CHAMBER LITERATURE

3 hours. A survey of the more important composers of chamber music from the eighteenth to the twentieth centuries and a representative selection of their works.

Mus 470 SYMPHONIC LITERATURE

3 hours. A chronological survey of the development of orchestral music from the works of Corelli to the works of Richard Strauss.

Mus 475 FIELD EXPERIENCE

1-5 hours. Supervised experience in music apprenticeship as conductor, performer, composer, etc. Prerequisite: Consent of music faculty.

Mus 480 CONTEMPORARY LITERATURE

3 hours. A study of the various stylistic trends in the music of the twentieth century and their relationship to the music of the past.

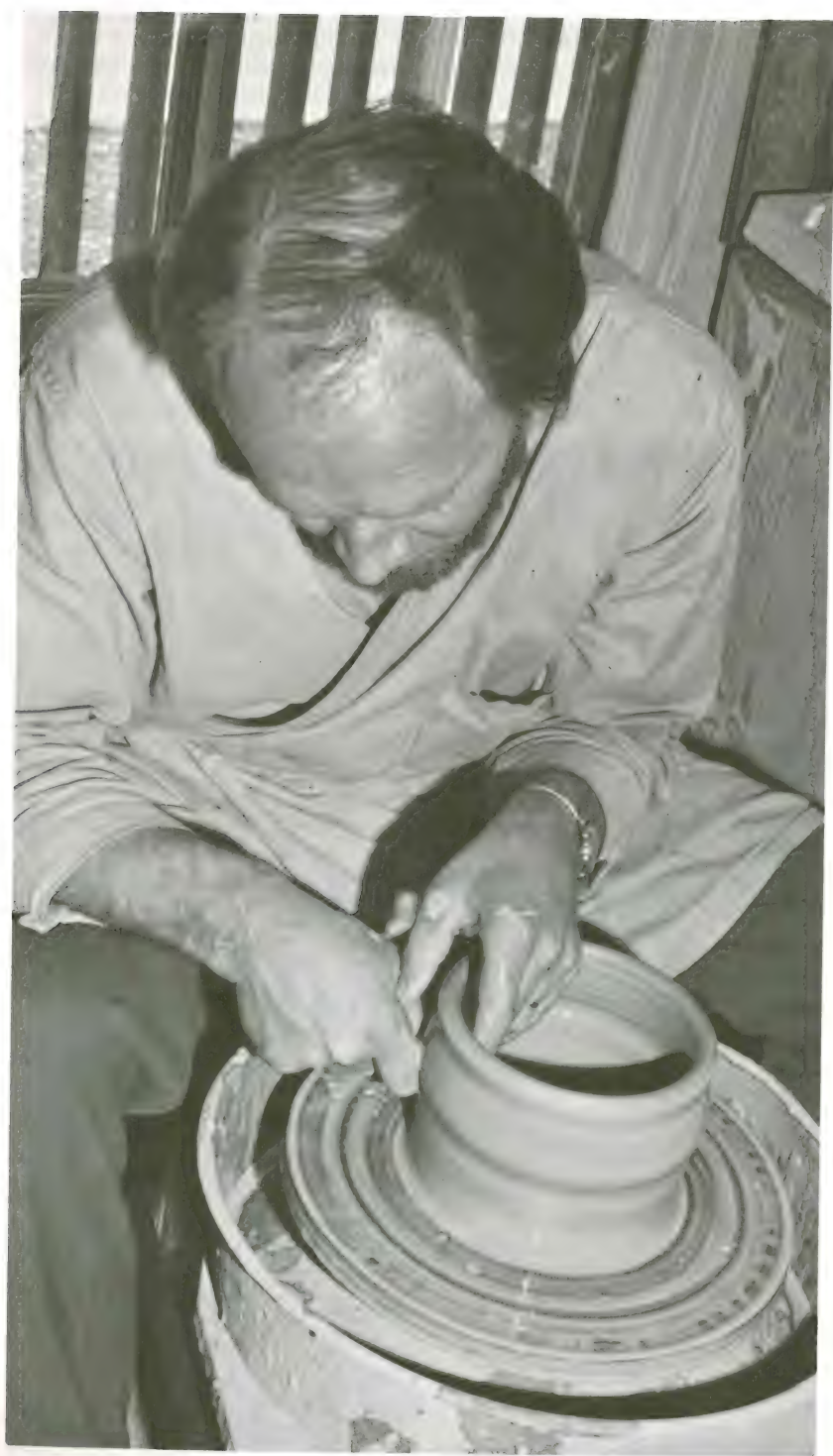
Mus 485 SELECTED TOPICS

3 hours. A seminar concerned with current faculty interests and areas of research. Intended for upper division students.

Mus 491, 492, 493 SENIOR SEMINAR

1 hour each term. Music majors prepare a project or recital under the supervision of the music faculty.





Division III

Language Arts

Chairman: Mrs. Cecilia C. Martin

Paul S. Cammack, Phyllis Cammack, Roy P. Clark, Dieter Engelhardt, Barry Hubbell, Donna L. Marks, Christina Sargent, Samuel E. Sherrill, Mrs. Sherie Sherrill, Lana Stanley, Ronald Worden

Basic Objectives

1. To help students to communicate accurately, effectively, and logically in both oral and written expression.
2. To introduce students to the technical aspects of various modern media for communication.
3. To acquaint students with the language, literature, attitudes, and ideas of other nations and cultures.
4. To acquaint students with significant ideas that have grown out of world thinking and have been recorded in literature, and in so doing to enlarge their understanding, appreciation, and enjoyment.
5. To prepare students for advanced study in their chosen field or profession such as library science, teaching, work with Spanish-speaking people, vocations in speech and speech-related fields.

Major Requirements

The Division of Language Arts offers majors in drama, English literature, Spanish, and speech arts and a secondary teaching major in language arts (see pages 34-35 for description of the program). Students selecting any of these majors are required to complete fifty-four hours or more as specified by the given major. In the general education program, they must complete two years of a foreign language, or its equivalent, and nine hours of World Literature. At least thirty-six hours in the major must be in upper division courses.

COMMUNICATIONS CONCENTRATION

A concentration in communications is recommended for students who wish to enter the field of creative expression through electronic media or the film arts. Inasmuch as Communications is being developed as an interdisciplinary major, courses in at least four of the following forms are recommended: writing, speech, drama, art, music, and communications technology (media). The Communications concentration should include courses from the following, in keeping with the hour requirements for a major within the language arts: Eng 200 Techniques of Journalism, Eng 300 Advanced Composition, Sp 110 Voice and Diction, Sp 210 Fundamentals of Speech, Sp 250 Phonetics, Sp 300 Persuasive Address, Dr 120 Fundamentals of Acting, Dr 254 Introduction to Drama, Dr 320 Advanced Acting, GE 120 Survey of Art, AA 331, 332 Lettering, Mus 117, 118, 119 Introduction to Music Literature, Mus 121, 122, 123 Theory I, Vocal or Instrumental Ensemble, Ed 350 Instructional Media. Other courses recommended include Sp 290 Business and Professional Speaking, Sp 305 Individual Instruction in Speech, Sp 410 History and Criticism of Public Address, Sp 420 Philosophy of Rhetoric, Dr 345 Theater Seminar, Mus 201, 202, 203 Elementary Conducting, Mus 430 Instrumental Conducting, Mus 450 Choral Conducting, Mus 480 Contemporary Literature, Ed 485 Selected Topics (Instructional Media II), R 430 Missions and Evangelism, R 460 Pastoral Ministry. Courses in foreign language, political science, psychology, sociology, and education are also suggested. Field experience in communications is highly recommended.

DRAMA B.A. DEGREE

Major Requirements

Sp 110 Voice and Diction; Dr 120 Fundamentals of Acting; Dr 220/320 Advanced Acting; Sp 230 Oral Interpretation; Dr 254 Introduction to Drama; Dr 324 Contemporary Drama; Dr 331, 332, 333 Play Production; Dr 420 History of Dramatic Thought; and Dr 490 Senior Seminar. Additional requirements are Eng 381, 382, 383 Shakespeare, as well as sixteen additional hours in drama (to total fifty-four hours), to include individual speech and play direction. Thirty-six hours of the fifty-four hours must be in upper division courses. Drama majors will also select two hours in movement in physical education within or in addition to the lower division physical education requirement, from the following: folk rhythms, rhythmic activities, tumbling or apparatus, and body mechanics. Drama majors will also fulfill attendance, performance, and technical cocurricular assignments as required by the department.

Lower Division

Dr 120 FUNDAMENTALS OF ACTING

2 hours. Introduction to principles of acting and the performing arts. Emphasis on improvisation. A study of the theories of acting. Performance of scenes, critical observation, analysis, and criticism of productions.

Dr 125/325 THEATER LABORATORY

1 or 2 hours. The practical application of theater techniques in connection with dramatic productions. Open to any student wishing to take part in productions.

Dr 145/345 THEATER SEMINAR

1 or 2 hours. (May be repeated throughout a two-year sequence.) Introduction to the theory and practice of various phases of theater art, studied in sequence by quarter, including play direction, drama for the church, children's theater, creative dramatics, puppetry, radio-television drama, play writing. This course will be designed to be adapted to the needs of the students currently enrolled. Prerequisite: Permission of instructor.

Dr 220/320 ADVANCED ACTING

2 hours. A review of principles learned in fundamentals course and in practical experience. Extension of those principles to include verbal dynamics, movement, emotional control, and esthetic values of acting. Two class periods and two laboratory periods per week.

Dr 254 INTRODUCTION TO DRAMA

3 hours. Identical with Eng 254. See below for description of course and prerequisite.

Upper Division

Dr 324 CONTEMPORARY DRAMA

3 hours. Identical with Eng 324. See below for description of course and prerequisite.

Dr 331, 332, 333 PLAY PRODUCTION

2 hours each term. Offered 1971-72 and alternate years. A study of the technical problems facing the director, including scenery design and construction, stage lighting, stage makeup, stage costume, and theater organization and management. This course is designed to meet the needs of the student who expects to produce plays in the secondary school.

Dr 420 HISTORY OF DRAMATIC THOUGHT

3 hours. Offered 1972-73 and alternate years. A survey of the history of theater arts, dramatic literature, and dramatic criticism. Special emphasis will be given to philosophic ideas as they are found in and their effects on dramatic literature.

Dr 485 SELECTED TOPICS

3 hours. Offered occasionally as a professor or visiting professor desires to present a special field to advanced students.

Dr 490 SENIOR SEMINAR

3 hours. Research projects and reading in drama leading to comprehensive written and oral examinations. Prerequisite: Permission of instructor.

Dr 495 INDIVIDUAL RESEARCH, FIELD WORK, OR TRAVEL

Up to 15 credits may be earned at the discretion of the department and the chairman of the division. Students must have permission to register in the course.

ENGLISH

Lower Division

Eng 111, 112, 113 ENGLISH COMPOSITION

3 hours each term. A course in composition emphasizing clarity of thought and expression. Stress on expository reading and writing and the

research term paper. Background reading in literary types—short story, drama, poetry.

Eng 117, 118, 119 ENGLISH COMPOSITION WITH READING AND WRITING LABORATORY

3 hours each term. The same as Eng 111, 112, 113, but with extra time and requirements for those judged low in English. Five class periods per week.

Eng 200 TECHNIQUES OF JOURNALISM

3 hours. This course is designed to give fundamental knowledge and practice in reporting, writing, and editing the news; writing features and editorials; studying the organization and techniques of newspapers and other media of mass communication. Prerequisite: Eng 111, 112, 113 English Composition or permission of instructor.

Eng 205/305 JOURNALISM WORKSHOP

1 hour (limited to 3 hours total credit). The practical application of journalism techniques in connection with the publishing of the college newspaper, *The Crescent*. Prerequisite: Eng 200 Techniques of Journalism.

Upper Division

Eng 300 ADVANCED COMPOSITION

3 hours. Offered 1972-73 and alternate years. Opportunities for creative writing and for a further study of the principles of good composition, with stress on exposition. Prerequisite: Eng 111, 112, 113 English Composition.

Eng 321, 322, 323 PUBLICATION EDITING

1 hour each term. An advanced course in the practice of publishing the student newspaper and the yearbook. It is offered to those students in positions of responsibility in the publications.

Eng 330 VERSIFICATION

3 hours. Offered 1971-72 and alternate years. An introduction to the techniques of poetry—types, metrics, scansion.

Eng 340 ENGLISH LANGUAGE DEVELOPMENT

3 hours. Offered 1972-73 and alternate years. A study of the origin and development of the English language, including its grammar and levels of usage in modern English.

FRENCH

Fr 101, 102, 103 FIRST-YEAR FRENCH

4 hours each term. The audio-lingual approach is used, with records and tapes and work in the language laboratory. Students must arrange for two 25-minute study periods per week in the laboratory. One of the five class meetings each week will be in the laboratory. Reading, writing, and grammar are introduced gradually.

Fr 201, 202, 203 SECOND-YEAR FRENCH

4 hours each term. Four regular classes weekly plus one class laboratory period and two 25-minute laboratory study periods to be arranged. Stress

on audio-lingual aspects, review and continuation of grammar, reading, introduction to French literature. Prerequisite: Fr 101, 102, 103 First-year French or equivalent shown by passing placement test.

Fr 205 SELECTED READINGS

1 or 2 hours. Reading to further develop proficiency and appreciation of French and to increase acquaintance with French culture. Prerequisites: 2 years of college French or its equivalent.

GERMAN

Ger 101, 102, 103 FIRST-YEAR GERMAN

4 hours each term. The audiovisual method is used with tapes and slides in the language laboratory. Assignments consist primarily of independent study in the laboratory according to the student's needs and demands. The stress is foremost upon competency in conversation and communication. Reading, writing, and grammar are introduced gradually. If the student successfully passes the MLA Placement Test at the beginning of the academic year, the year's requirement is waived.

Ger 201, 202, 203 SECOND-YEAR GERMAN

4 hours each term. The audiovisual method is continued with opportunity for advancement in conversation through programed tapes and slides in the language laboratory. Increased stress will be laid upon reading, writing, and grammar. For the more advanced students, a suitable text on the diverse cultural aspects of German life and thought will present a heightened experience in language learning. If the student successfully passes the MLA Placement Test at the beginning of the academic year, the year's requirement is waived.

GREEK

Gr 101, 102, 103 FIRST-YEAR NEW TESTAMENT GREEK

4 hours each term. Offered 1972-73 and alternate years. A beginner's course in the Greek of the New Testament, including vocabulary, grammar, declensions, conjugations, and special constructions. The First Epistle of John and various other selections from the New Testament are read.

Gr 201, 202, 203 SECOND-YEAR NEW TESTAMENT GREEK

4 hours each term. Offered 1971-72 and alternate years. Review of the Greek grammar and advanced studies. Selections from the Greek New Testament are read, with attention to grammar and exegesis. Identical with B 201, 202, 203. Prerequisite: Gr 101, 102, 103 First-year New Testament Greek.

Gr 301, 302, 303 NEW TESTAMENT GREEK

4 hours each term. Identical with Gr 201, 202, 203, but upper division.

LINGUISTICS

L 300 INTRODUCTION TO LINGUISTICS

3 hours. Offered 1971-72 and alternate years. The nature of language considered in the light of modern linguistic studies. Required of those majoring in English literature or Spanish.

LITERATURE

B.A. DEGREE

Major Requirements

Eng 300 Advanced Composition; Eng 330 Versification; Eng 340 English Language Development; Eng 350 Milton; Eng 370 Chaucer; Eng 381, 382, 383 Shakespeare; Eng 390 Spenser; Eng 491, 492, 493 Senior Thesis; L 300 Introduction to Linguistics. To make up the minimum of 54 hours the student should select from the following list, endeavoring to include a course in each period of English literature and one or more general courses.

Lower Division

Eng 201, 202, 203 ENGLISH LITERATURE

3 hours each term. A survey of English literature with emphasis on the development of ideas as well as on types of literature.

Eng 251, 252, 253 MASTERPIECES OF WORLD LITERATURE

3 hours each term. A course designed to give understanding and appreciation of the best literature, both past and present, of the various countries of the world.

Eng 254 INTRODUCTION TO DRAMA

3 hours. Offered 1972-73 and alternate years. The history and nature of drama with study of different types and periods. Identical with Dr 254.

Upper Division

Eng 301, 302, 303 ENGLISH LITERATURE

3 hours each term. Identical with Eng 201, 202, 203, but upper division. Additional work is required for earning upper division credit.

Eng 311, 312 AMERICAN LITERATURE

3 hours each term. Offered 1972-73 and alternate years. A sequence with Eng 320 Eighteenth Century English Literature. The development of American literature, with special attention to social, political, and religious problems as presented in literature.

Eng 314 EARLY ENGLISH LITERATURE

3 hours. Offered 1972-73 and alternate years. History and literature of Roman and Anglo-Saxon England and its contribution to the later literature of Britain. Special attention is given to the *Beowulf*, the Cynewulfian poems, early translations from the Bible, literature under Alfred the Great, and the Anglo-Saxon Chronicles.

Eng 320 EIGHTEENTH CENTURY ENGLISH LITERATURE

3 hours. Offered 1972-73 and alternate years. The Age of Enlightenment, Neoclassicism, the Age of Queen Anne, the Age of Reason: the history, the philosophy, the literature, the effect on the English language of this very significant period. Movements traced will be the beginnings of modern journalism, the development of the English essay, the first English dictionaries, the beginnings of the English novel, the reassertion of imagination and Romanticism at the end of the century. Early American

literature, which begins in this period of the American Revolution, will be correlated with its English antecedents. First term of sequence is followed by Eng 311, 312 American Literature.

Eng 324 CONTEMPORARY DRAMA

3 hours. Offered 1972-73 and alternate years. Analysis of contemporary drama as exemplified by specific plays. Identical with Dr 324.

Eng 334 NATURE OF THE ENGLISH LANGUAGE

3 hours. Offered 1972-73 and alternate years. A general view of the English language with special attention given to modern linguistic theories and modern American usage.

Eng 350 MILTON

3 hours. Offered 1971-72 and alternate years. A study of Milton and his poetry and prose against the background of the seventeenth century.

Eng 351, 352, 353 MASTERPIECES OF WORLD LITERATURE

3 hours each term. Identical with Eng 251, 252, 253, but upper division. Additional work is required for earning upper division credit.

Eng 360 TENNYSON AND BROWNING

3 hours. Offered 1972-73 and alternate years. A study of the poetry of Tennyson and Browning with some consideration of their most significant contemporaries and of the Victorian era.

Eng 370 CHAUCER AND HIS AGE

3 hours. Offered 1972-73 and alternate years. A study of Chaucer as one of the great English poets of the fourteenth century renaissance.

Eng 381, 382, 383 SHAKESPEARE

3 hours each term. Offered 1971-72 and alternate years. A study of the major plays of Shakespeare, the background that produced them, and the contribution they make to current thinking.

Eng 390 SPENSER

3 hours. Offered 1971-72 and alternate years. A study of the *Faerie Queene* and minor poems of Spenser, their significance in the history of English poetry.

Eng 430 ENGLISH ROMANTIC POETS OF THE EARLY NINETEENTH CENTURY

3 hours. Offered 1971-72 and alternate years. Particular attention is given to the poetry of Wordsworth and the Lake Poets, Shelley and his circle, Byron and Keats.

Eng 440 TEACHING OF LANGUAGE ARTS

3 hours. Identical with Ed 440. See Division I for description of course and prerequisite.

Eng 444 LITERATURE FOR ADOLESCENTS

3 hours. Offered 1972-73 and alternate years. A study of the literature taught in junior and senior high schools.

Eng 460 TEACHING OF DEVELOPMENTAL READING

3 hours. Identical with Ed 460. See Division I for description of course and prerequisite.

Eng 471 THE ENGLISH NOVEL

3 hours. Offered 1971-72 and alternate years. An analytical and historical study of the English novel from the eighteenth century.

Eng 473 TWENTIETH CENTURY NOVEL

3 hours. Offered 1972-73 and alternate years. An examination of the main trends in twentieth century novel writing. The course includes study of the main European, English, and American novelists as they relate to each other. Ideas and movements will be emphasized.

Eng 474 TWENTIETH CENTURY POETRY

3 hours. Offered 1971-72 and alternate years. An examination of modern poets and their craft.

Eng 485 SELECTED TOPICS

3 hours. Offered occasionally as a professor or visiting professor desires to present a special field to advanced students.

Eng 491, 492, 493 SENIOR THESIS

1 hour each term. Required of majors in literature.

Eng 495 INDIVIDUAL RESEARCH, FIELD WORK, OR TRAVEL

Up to 15 credits may be earned at the discretion of the department and the chairman of the division. Students must have permission to register in the course.

SPANISH B.A. DEGREE

Major Requirements

A minimum of thirty-six upper division hours in Spanish including: Spn 301, 302, 303 Spanish Composition and Conversation; Spn 311, 312 Spanish Pronunciation and Phonetics; Spn 321, 322, 323 Spanish Literature; Spn 400 Hispanic Culture and Civilization; and Spn 491, 492 Senior Seminar. In addition, Hst 350 History of Latin America and L 300 Introduction to Linguistics are required. Eng 251, 252, 253 Masterpieces of World Literature is required for general education.

Lower Division

Spn 101, 102, 103 FIRST-YEAR SPANISH

4 hours each term. Elementary practice in listening, speaking, reading, and writing Spanish. A study of the elements of grammar. Laboratory periods are arranged.

Spn 201, 202, 203 SECOND-YEAR SPANISH

4 hours each term. An extension of listening, speaking, and writing with review of grammar. Reading of short stories and novels with reports and individual projects. Laboratory periods are arranged.

Upper Division

Spn 301, 302, 303 SPANISH COMPOSITION AND CONVERSATION

3 hours each term. Fundamentals of pronunciation and grammar applied in extensive oral and written practice. Conducted in Spanish. Prerequisite: Two years of college Spanish or its equivalent.

Spn 305 DIRECTED READING IN SPANISH

1 to 3 hours, with a total limit of 3 hours. Reading to further develop proficiency and appreciation of Spanish and to increase acquaintance with Spanish and Spanish-American life. Prerequisite: Two years of college Spanish or its equivalent.

Spn 311, 312 SPANISH PRONUNCIATION AND PHONETICS

3 hours each term. Scientific study of Spanish phonetics and phonemics, with emphasis on correct formation and production of sounds, combinations of sounds, and intonation. Extensive listening and speaking practice in language laboratory. Prerequisite: Spn 201, 202, 203 Second-year Spanish or its equivalent.

Spn 321, 322, 323 SPANISH LITERATURE

3 hours each term. Offered 1971-72 and alternate years. A study of the important writers, works and literary movements of Spanish literature since the Middle Ages. Lectures, class discussion, outside readings, and reports. Conducted in Spanish. Prerequisite: Ability to understand spoken and written Spanish.

Spn 400 HISPANIC CULTURE AND CIVILIZATION

3 hours. An analysis of Spanish culture with emphasis on the historical and political background, philosophy, social institutions, art, and achievement of the Iberian Peninsula and Hispanic America. Conducted in Spanish. Prerequisite: Ability to understand spoken and written Spanish.

Spn 410 ADVANCED SPANISH COMPOSITION AND CONVERSATION

3 hours. Advanced and specialized study in written and spoken Spanish. Conducted in Spanish. Prerequisite: Spn 301, 302, 303 Spanish Composition and Conversation or its equivalent.

Spn 420 MODERN SPANISH LITERATURE

3 hours. Spanish literature since 1898. Principal types and authors. Extensive reading of texts. Conducted in Spanish. Prerequisite: Ability to understand spoken and written Spanish.

Spn 421, 422 SPANISH AMERICAN LITERATURE

3 hours each term. Offered 1972-73 and alternate years. The social, political, and literary currents of the Central and South American countries, treating the colonial and revolutionary periods, romanticism, and modern movements. Conducted in Spanish. Prerequisite: Two years of college Spanish or its equivalent.

Spn 430 LITERATURE OF THE SPANISH GOLDEN AGE

3 hours. An intensive study of the authors of the Golden Age (1500-1680), including Calderon, Cervantes, Garcilaso, Gongora, Lope de Vega, and others. Conducted in Spanish. Prerequisite: Ability to understand spoken and written Spanish.

Spn 485 SELECTED TOPICS

3 hours. Offered occasionally as a professor or visiting professor desires to present a special field to advanced students.

Spn 491, 492 SENIOR SEMINAR

2 hours, fall term; 1 hour, winter term. Study of selected topics in Spanish.

Spn 495 INDIVIDUAL RESEARCH, FIELD WORK, OR TRAVEL

Up to 15 credits may be earned at the discretion of the department and the chairman of the division. Students must have permission to register in the course.

SPEECH ARTS B.A. DEGREE

Major Requirements

The major in Speech Arts must elect the general education program which includes language and literature. Requirements for the major total sixty-three hours and are outlined as follows: thirty-six hours in speech courses (a minimum of six hours from each of the four areas of emphasis); eighteen hours in literature in addition to the general education requirement (at least one sequence of this must be upper division); nine hours in drama courses.

SPEECH

Lower Division

Sp 105/305 INDIVIDUAL INSTRUCTION IN SPEECH

1 hour. Private guidance in developing speech skills or in correcting speech problems. Prerequisite: Permission of instructor.

Sp 110 VOICE AND DICTION

2 hours. Basic instruction in the theory of sound production and the phonetic basis of speech. Training to improve articulation, voice quality, and vocal effectiveness.

Sp 135/335 APPLIED FORENSICS

$\frac{1}{2}$ hour, maximum 4 hours. Training in debate, oratory, oral interpretation, impromptu and extemporaneous speaking in preparation for forensic competition.

Sp 210 FUNDAMENTALS OF SPEECH

4 hours. A basic study of communication theory and practice. The physical, psychological, semantic, and rhetorical bases of speech are analyzed, with training in the preparation, delivery, and evaluation of various types of speeches.

Sp 220 ESSENTIALS OF DISCUSSION

2 hours. A study of the philosophy of consensus and the techniques of problem solving through group dynamics and discussion.

Sp 230 ORAL INTERPRETATION OF LITERATURE

3 hours. A study of the techniques involved in vocal expression of various types of literature, and the development of skill in the projection of meaning and emotion by reading aloud.

Sp 250 PHONETICS

3 hours. Offered 1971-72 and alternate years. A thorough study of the International Phonetic Alphabet and the phonetic basis of speech. Analysis of phonetic deviations.

Sp 260 ARGUMENTATION AND DEBATE

3 hours. A study of the philosophy of logic and the techniques of debate. Part of the study is devoted to analysis of the current collegiate debate question and the equipment of a team for debate competition.

Sp 290 BUSINESS AND PROFESSIONAL SPEAKING

2 hours. Offered on demand. Includes the theory and techniques of interpersonal communication, salesmanship, interview, and conference, as well as professional, political, and after-dinner speaking.

Upper Division

Sp 300 PERSUASIVE ADDRESS

3 hours. Offered 1972-73 and alternate years. Identical with R 300. A study of the principles, methods, and techniques of delivery of sermons, orations, and various types of persuasive speeches. Prerequisite: Sp 210 Fundamentals of Speech.

Sp 320 SPEECH SCIENCE

3 hours. Offered 1972-73 and alternate years. A study of the anatomical and neurological basis of speech and hearing, with special emphasis upon understanding the causes and treatment of communicative disorders.

Sp 400 SPEECH PATHOLOGY

3 hours. Offered 1971-72 and alternate years. A study of the organic disorders of communication: aphasia, cerebral palsied speech, cleft palate, stuttering; their classification, causation, manifestation, and treatment. Prerequisite: Sp 250 Phonetics, and Sp 320 Speech Science.

Sp 410 HISTORY AND CRITICISM OF PUBLIC ADDRESS

4 hours. Offered 1972-73 and alternate years. A study of representative speeches in British and American history, with a critical analysis of rhetorical devices and techniques.

Sp 420 PHILOSOPHY OF RHETORIC

4 hours. Offered 1971-72 and alternate years. A study of the history of public speaking, with analysis of the theories and rhetoric of Aristotle, Plato, Cicero, and Quintillian. A study of modern rhetorical deviations and devices.

Sp 485 SELECTED TOPICS

3 hours. Offered occasionally as a professor or visiting professor desires to present a special field to advanced students.

Sp 490 SENIOR SEMINAR

3 hours. Research projects and reading in speech leading to comprehensive written and oral examinations. Prerequisite: Permission of instructor.

Sp 495 SPECIAL STUDY

Up to 15 credits may be earned at the discretion of the department and the chairman of the division. Study in the areas of contemporary communication, developments in speech therapy, phonetics, semantics, and rhetoric. Students must have permission to register in the course.



Division IV

Natural Science

Chairman: Hector J. Munn

Flora T. Allen, John L. Brewster, Donald E. Chittick, Danny M. Hobbs, G. Dale Orkney, Evan Rempel, James W. Stanley, Helen W. Street, Elver Voth, Harold L. Wilhite

Basic Objectives

1. To help the student develop an awareness and understanding of his environment.
2. To prepare the student for advanced study in these and related fields.
3. To provide the necessary discipline for increased competence in intellectual pursuits.
4. To provide a background for studies in psychology, sociology, education, and related subjects.

MAJORS OFFERED

The division offers subject majors in biology, chemistry, home economics, and mathematics. It offers secondary teaching majors and minors in biology, mathematics, and physical science-general science (see pages 33, 35, 36 for descriptions of these programs).

BIOLOGY

B.S. DEGREE

Major Requirements

Fifty-one term hours in biology are required including Bi 101, 102, 103 General Biology and at least thirty-nine hours of upper division biology courses to include Bi 311, 312 Plant Morphology and Bi 491, 492, 493 Senior Seminar. In the general education program, twelve hours of Ch 111, 112, 113 General Chemistry are required to meet cultural legacy,

and eight hours of Ch 331, 332 Organic Chemistry and four hours of Ch 210 Quantitative Analysis are required to fulfill symbolics. In addition, four hours of Mth 121 or the equivalent are required. Each biology major is required to prepare a research paper during his senior year, which must report independent research. German or French is recommended in preparation for graduate work.

Lower Division

Bi 101, 102, 103 GENERAL BIOLOGY

4 hours each term. An introduction to the science of living things. Includes human anatomy and physiology, a study of the anatomy and physiology of higher plants, an introduction to the study of heredity, and a brief survey of the plant and animal kingdoms. Three lectures and one laboratory period per week.

Upper Division

Bi 310 VERTEBRATE EMBRYOLOGY

4 hours. Offered 1971-72 and alternate years. A study of cleavage, organogeny, and general development of typical vertebrates. Two lectures and two laboratory periods per week. Prerequisite: Bi 101, 102, 103 General Biology.

Bi 311, 312 PLANT MORPHOLOGY

5 hours each term. A survey of the plant kingdom emphasizing form, reproduction, development, and classification. Four lectures and one laboratory period per week.

Bi 320 HUMAN ANATOMY

5 hours. A study in detail of the major systems of the human body. Three lectures and two laboratory periods per week. Prerequisite: Bi 101, 102, 103 General Biology.

Bi 321, 322 COMPARATIVE VERTEBRATE ANATOMY

4 hours each term. Offered 1972-73 and alternate years. A comparative study of the members of the phylum Chordata. Two lectures and two laboratory periods per week. Prerequisite: Bi 101, 102, 103 General Biology.

Bi 330 PHYSIOLOGY

4 hours. Functions of the human body, stressing tissues, organs, and organ systems. Two lectures and two laboratory periods each week. Prerequisite: Bi 101, 102, 103 General Biology.

Bi 340 PLANT PHYSIOLOGY

5 hours. Offered 1972-73 and alternate years. A study of plant function from the level of the organelle to that of the organ. Photosynthesis, respiration, water relations, growth and development, mineral nutrition, and other topics will be covered. Four lectures and one laboratory period per week. Prerequisite: Bi 101, 102, 103 General Biology.

Bi 350 GENETICS

3 hours. Offered 1971-72 and alternate years. A study of the basic principles of inheritance. Suggested as a valuable elective for students in

psychology, sociology, theology, or education. Three lectures per week. Prerequisite: Bi 101, 102, 103 General Biology.

Bi 350L GENETICS LABORATORY

1 hour. Offered 1971-72 and alternate years. Optional in combination with Bi 350 Genetics.

Bi 360 ECOLOGY

4 hours. Offered 1971-72 and alternate years. A study of the relationship of living organisms to their environment. Prerequisite: Bi 101, 102, 103 General Biology.

Bi 370 GENERAL MICROBIOLOGY

5 hours. Offered 1971-72 and alternate years. A course in the structure, activities, classification, and methods of study of microorganisms. Viruses, bacteria, fungi, rickettsia, PPLO, and protozoans will be studied. Three lectures and two laboratory periods per week.

Bi 380 ORNITHOLOGY

4 hours. Offered 1972-73 and alternate years. A study of bird structure, adaptations, migrations, identification, habits, and economic importance. Designed for students with a hobby interest in birds and for biology majors. Two lectures per week with laboratory and extensive field work. Prerequisite: Bi 101, 102, 103 General Biology.

Bi 430 EVOLUTION

3 hours. Offered 1971-72 and alternate years. A study of the theory of organic evolution as it relates to the taxonomic units of living organisms and a survey of the various schools of thought in the interpretation of evolution.

Bi 440 TEACHING OF BIOLOGY

3 hours. Identical with Ed 440. See Division I for description of course and prerequisite.

Bi 460 SYSTEMATIC BOTANY

4 hours. Offered 1971-72 and alternate years. Collection, identification, and classification with emphasis on the Angiosperms. Topics in experimental taxonomy, literature of taxonomy, systems and history of classification, and evolution of the Angiosperms are considered. Two lectures per week plus field and laboratory work.

Bi 461, 462 INVERTEBRATE ZOOLOGY

4 hours each term. Offered 1972-73 and alternate years. A study of the invertebrate phyla of the animal kingdom emphasizing morphology and taxonomy. Two lectures and two laboratory periods per week. Prerequisite: Bi 101, 102, 103 General Biology.

Bi 485 SELECTED TOPICS

3-4 hours. A variety of topics may be offered reflecting special interests of faculty, visiting professors, or recent developments in biology. Prerequisite: Bi 101, 102, 103 General Biology.

Bi 491, 492, 493 SENIOR SEMINAR

1 hour each term. Three hours are required of biology majors.

Bi 495 SPECIAL STUDY

1-4 hours. Specific instructional programs, laboratory research, or independent study as planned under advisement of the department for upper division students. A total of not more than six hours may be applied toward major.

CHEMISTRY

B.S. DEGREE

Major Requirements

Fifty-one hours in chemistry are required including: Ch 111, 112, 113 General Chemistry and at least thirty-nine hours in upper division chemistry to include twenty-seven hours of Ch 331, 332, 333 Organic Chemistry and Ch 401-407 Physical Chemistry and Ch 495 Special Study. In the general education program, twelve hours of Ph 201, 202, 203 General Physics are required to meet cultural legacy. Mathematics through Mth 202 Multivariable Calculus is required, twelve hours of which will meet the symbolics requirement. Preparation for graduate work in chemistry should include German or French.

Lower Division

Ch 111, 112, 113 GENERAL CHEMISTRY

4 hours each term. A study of fundamental chemical phenomena and principles including theories for their interpretation. Laboratory instruction emphasizes quantitative aspects of chemistry. Spring term includes inorganic qualitative analysis. Programed techniques are used to individualize instruction. Two lectures and two laboratory periods per week. Prerequisite: One year of high school chemistry or acceptable test scores.

Ch 210 QUANTITATIVE ANALYSIS

4 hours. Emphasizes the skills and techniques of chemical measurements. Includes classical gravimetric and volumetric procedures and an introduction to spectrophotometric and chromatographic procedures. Theoretical basis of each procedure is considered. A service course for premedical, predental, and medical technology students. Two lectures and two three-hour laboratory periods per week. Prerequisite: Ch 113 General Chemistry.

Upper Division

Ch 331, 332, 333 ORGANIC CHEMISTRY

4 hours each term. An approach stressing structural, bonding, and energy factors of organic compounds and the mechanism of their reactions. Classical aliphatic and aromatic chemistry are integrated. Laboratory stresses techniques, skills, and purposes involved in synthesis, purification, and identification of organic compounds. Two lectures and two three-hour laboratory periods per week. Prerequisite: Ch 113 General Chemistry.

Ch 340 BIOCHEMISTRY

4 hours. Offered 1971-72 and alternate years. An introduction to the chemistry of substances involved in life processes. The structures, reactions, and energy transformations of these compounds are considered.

Laboratory involves a study of properties, purification, and identification of bio-organic compounds. Three lectures and one three-hour laboratory period per week. Prerequisite: Ch 332 Organic Chemistry.

Ch 351, 352 BASIC ELECTRONICS AND CIRCUITS

4 hours each term. Offered 1971-72 and alternate years. Identical with Ph 351, 352. See Physics for description and prerequisites.

Ch 401, 402, 403 PHYSICAL CHEMISTRY

3 hours each term. Offered 1972-73 and alternate years. An introduction to modern theoretical chemistry emphasizing thermodynamics, kinetics, and molecular structure. Two lectures and one recitation period per week. Prerequisite: Mth 202 Multivariable Calculus and Ph 203 General Physics.

Ch 405, 406, 407 PHYSICAL CHEMISTRY LABORATORY

1 hour each term. Optional in combination with Ch 401, 402, 403 Physical Chemistry.

Ch 410 INORGANIC CHEMISTRY

4 hours. Offered 1972-73 and alternate years. Includes descriptive inorganic chemistry, reaction mechanism, and modern theoretical advances. Three lectures and one three-hour laboratory period per week.

Ch 420 ADVANCED ANALYTICAL CHEMISTRY

4 hours. Offered 1971-72 and alternate years. Modern analytical methods and theory with emphasis on current applications including specialized instrumental techniques. Two lectures and two three-hour laboratory periods per week.

Ch 430 ADVANCED ORGANIC CHEMISTRY

4 hours. Offered 1971-72 and alternate years. Current theories of structure mechanism and acid-base properties of organic compounds. Prerequisite: Ch 333 Organic Chemistry.

Ch 485 SELECTED TOPICS

3-4 hours. A variety of topics may be offered reflecting special interests of faculty, visiting professors, or recent developments in chemistry. Prerequisite: Ch 111, 112, 113 General Chemistry.

Ch 495 SPECIAL STUDY

1-3 hours. Specific instructional programs, laboratory research, or independent study as planned under advisement of the department for upper division students. A total of not more than six hours may be taken.

GENERAL SCIENCE

Lower Division

GSc 101 FOUNDATIONS OF EARTH SCIENCE

4 hours. The basic concepts, language, and methodology of geology, meteorology, astronomy, and oceanography are considered with laboratory experience drawn from local phenomena. Three lectures and one laboratory period per week.

GSc 102 FOUNDATIONS OF PHYSICS

4 hours. A survey of some basic topics related to the field of physics such as motion, energy, sound, electricity, relativity. Emphasis on vocabulary and broad principles. Extensive mathematics background not required. Three lectures and one laboratory period per week.

GSc 103 FOUNDATIONS OF CHEMISTRY

4 hours. Emphasis on topics related to the field of chemistry. Survey of modern theory and applications. Recommended for students with no previous training in chemistry or whose college aptitude scores indicate a need for introduction to chemistry prior to taking Ch 111 General Chemistry.

Upper Division

GSc 310 ESSENTIALS OF GEOLOGY

3 hours. Offered 1972-73 and alternate years. An introductory study of physical geology, rocks, minerals, and theories of developmental geology. Two lectures and one laboratory period per week.

GSc 320 ESSENTIALS OF METEOROLOGY

3 hours. Offered 1972-73 and alternate years. A study of the atmosphere, the factors that produce weather, and how these factors are measured and used to predict weather. Laboratory involves a study of local weather and the use of synoptic weather data. Two lectures and one laboratory period per week.

GSc 330 ESSENTIALS OF ASTRONOMY

3 hours. Offered 1972-73 and alternate years. A study of the solar system, constellations, stars, stellar systems, and current theories of cosmology. Three lectures with periodic laboratory periods at night.

GSc 440 TEACHING OF SCIENCE

3 hours. Identical with Ed 440. See Division I for description of course and prerequisites.

GSc 485 SELECTED TOPICS

3 hours. A variety of topics may be offered, for example: history of science, philosophy of science, environmental pollution. Prerequisite: Upper division standing.

HOME ECONOMICS B.S. DEGREE

Major Requirements

A minimum of fifty-six term hours in home economics courses is required and must include: HEc 111, 112 Foods; HEc 121, 122 Clothing Construction; HEc 200/300 Nutrition; HEc 230 Textiles; HEc 260 Clothing Selection; HEc 270 Problems in Clothing; HEc 290 Meal Planning; HEc 350 Home Decoration; HEc 360 Consumer Buying; HEc 380 Construction with Special Fabrics; HEc 320 Advanced Clothing Construction (Tailoring); and HEc 430 Home Management House. A science course, preferably chemistry, is also required. It fulfills the general education requirements for symbolics and tools basic to a B.S. major. In addition the

following electives are recommended: HEc 310 Human Growth and Development; and HEc 340 Marriage and the Family.

Lower Division

HEc 111, 112 FOODS

4 hours each term. Offered 1972-73 and alternate years. A study of securing and maintaining a good state of nutrition, the preparation and use of common foods, planning and serving meals, marketing, preservation of foods. One lecture and two laboratory periods per week.

HEc 121, 122 CLOTHING CONSTRUCTION

4 hours each term. Offered 1971-72 and alternate years. The development of a wholesome attitude toward clothing construction; of ability to construct clothing quickly, accurately, and with perfect fit; of ability to recognize fitting problems and how to correct them.

HEc 200/300 NUTRITION

4 hours. Offered 1972-73 and alternate years. The relation of food to proper nutrition, the factors that influence its nutritive value, and recent trends in dietary habits. Identical with HE 300.

HEc 230 TEXTILES

4 hours. Offered 1971-72 and alternate years. The study of textiles, their relation to the work of the household, and clothing problems.

HEc 240 HOME MANAGEMENT AND EQUIPMENT

4 hours. Offered 1971-72 and alternate years. The study of social and economic problems found in the home, such as housing, house management, household production, and the adequacy and use of personal and family income. Includes a unit on use and care of household equipment.

HEc 260 CLOTHING SELECTION

4 hours. Offered 1971-72 and alternate years. Artistic and economic factors in the selection of clothing for the individual and the family.

HEc 270 PROBLEMS IN CLOTHING

4 hours. Offered 1971-72 and alternate years. Pattern alteration, fitting, and clothing construction with advanced techniques. Special problems in silk and wool. A matching project required. Prerequisites: HEc 260 Clothing Selection, HEc 121, 122 Clothing Construction.

HEc 290 MEAL PLANNING

4 hours. Offered 1972-73 and alternate years. Includes purchasing, menu making, and meal management. Emphasis on food preparation, and time and money management.

Upper Division

HEc 310 HUMAN DEVELOPMENT

5 hours. Identical with Psy 310 Human Development. See Division VI for description of course and prerequisite.

HEc 320 ADVANCED CLOTHING CONSTRUCTION

4 hours. Offered 1972-73 and alternate years. Emphasis on tailoring dresses, suits, and coats. Prerequisite: HEc 121, 122 Clothing Construction.

HEc 340 MARRIAGE AND THE FAMILY

3 hours. Offered 1972-73 and alternate years. Identical with Soc 340 Marriage and the Family. See Division VI for description of the course and prerequisite.

HEc 350 HOME DECORATION

5 hours. Offered 1971-72 and alternate years. Principles involved in the planning, furnishing, and decorating of a home. Emphasis is placed on practical homemaking for the moderate type of home. Workshops are incorporated, giving experience in decorating with do-it-yourself projects.

HEc 360 CONSUMER BUYING

3 hours. Offered 1971-72 and alternate years. Deals with the aspects of the economic system in which consumers operate, with emphasis on individual problems and procedures. Emphasis on buying with the American way of living in mind—particularly problems and aids in purchasing clothing and textiles.

HEc 380 CONSTRUCTION WITH SPECIAL FABRICS

4 hours. Offered 1972-73 and alternate years. Learning techniques that are unique to knit fabrics and garments that lend themselves particularly to knit fabrics.

HEc 430 HOME MANAGEMENT HOUSE

5 hours. Offered 1972-73 and alternate years. Principles underlying management of a home are put into practice during residence in the Home Management House. Some class work giving study of social and economic problems found in the home. Includes a unit on use and care of household equipment.

HEc 495 SPECIAL STUDY

1-4 hours. Special research by permission of instructor.

MATHEMATICS B.S. DEGREE

Major Requirements

A minimum of thirty-two approved hours in mathematics beyond Mth 202 Multivariable Calculus, twenty-nine of which must be upper division, is required. In addition, the student must complete Ph 101, 102, 103 General Physics to fulfill the general education requirement in symbolics.

Lower Division

Mth 111, 112, 113 ESSENTIALS OF MATHEMATICS

3 hours each term. A study of the structures of arithmetic. Includes number bases, group and set theory, module systems, mathematical proof, and functions. Does not apply toward a mathematics major.

Mth 117, 118 INTRODUCTION TO FINITE MATHEMATICS

4 hours each term. The elements of set theory, logic, probability, vectors and matrices, linear programming, and the theory of games, with applications to the economic and social sciences.

Mth 120 INTERMEDIATE ALGEBRA

4 hours. Offered on demand. A short review of high school algebra followed by the study of the binomial theorem, progressions, permutations and combinations, determinants, and logarithms. Does not apply toward a mathematics major.

Mth 121 COLLEGE ALGEBRA

4 hours. A study of sets, number fields, relations, functions, graphs, equations of lines and conics, trigonometric functions and their interrelationships, and elements of linear algebra.

Mth 122, 123 CALCULUS WITH ANALYTIC GEOMETRY

4 hours each term. A study of limits, continuity, differentiation with applications, Riemann integral, conics, exponential functions, analytic geometry, vectors, and methods of integration. Prerequisite: Mth 121 College Algebra or equivalent.

Mth 201, 202 MULTIVARIABLE CALCULUS

4 hours each term. A study of multiple integration, partial differentiation, multidimensional vectors, infinite series, and elements of linear algebra. Prerequisite: Mth 123 Calculus with Analytic Geometry or equivalent.

Mth 210 COMPUTER CODING

3 hours. Instruction and practice in computer coding with individual opportunity for development of proficiency in basic skills in computer use and application.

Upper Division

Mth 300 COMPUTER PROGRAMING

3 hours. Offered 1971-72 and alternate years. A course emphasizing symbolic language and the formation of computer programs for business and industry. Prerequisite: Mth 210 Computer Coding.

Mth 310 DIFFERENTIAL EQUATIONS

5 hours. A study of the theory, methods of solution, and applications of ordinary differential equations. This includes series solution and Laplace transforms. Prerequisite: Mth 201, 202 Multivariable Calculus.

Mth 321, 322, 323 MODERN ALGEBRA

3 hours each term. Offered 1971-72 and alternate years. A study of groups, fields, rings, integral domains, vector spaces, matrices, polynomials, determinants, and algebraic number systems. Prerequisite: Mth 201, 202 Multivariable Calculus.

Mth 331, 332 PROBABILITY AND STATISTICS

3 hours each term. Offered 1972-73 and alternate years. A study of sample spaces, combinatorial methods, discrete and continuous distributions, sampling, estimating parameters, and testing hypotheses. Prerequisite: Mth 201, 202 Multivariable Calculus.

Mth 400 NUMERICAL ANALYSIS

3 hours. Offered 1972-73 and alternate years. A study of solution of equations, polynomial approximations, and differential equations.

Mth 411, 412 MODERN GEOMETRY

3 hours each term. Offered 1971-72 and alternate years. A study of advanced Euclidian, projective, and non-Euclidian geometry. Elements of topology. Prerequisite: Mth 201, 202 Multivariable Calculus.

Mth 421, 422 ADVANCED CALCULUS

5 hours each term. Offered 1972-73 and alternate years. A rigorous treatment of topics introduced in lower division calculus with a study of more advanced topics basic to the study of real and complex variables. Prerequisite: Mth 201, 202 Multivariable Calculus.

Mth 423 COMPLEX VARIABLES

3 hours. Offered 1972-73 and alternate years. A study of the calculus of complex variables to include: Cauchy's Theorem, residues, and contour integration. Prerequisite: Mth 421, 422 Advanced Calculus.

Mth 440 TEACHING OF MATHEMATICS

3 hours. Identical with Ed 440. See Division I for description of course and prerequisite.

Mth 485 SELECTED TOPICS

3 hours. A variety of topics may be offered reflecting special interests of faculty or visiting professors. Prerequisite: Upper division standing in mathematics.

Mth 495 SPECIAL STUDY

1-3 hours. Instructional programs organized to meet specified objectives of upper division students. A total of not more than six hours may be taken.

PHYSICS

Lower Division

Ph 201, 202, 203 GENERAL PHYSICS

4 hours each term. An introductory course. Mechanics, heat, sound, electricity, magnetism, and light are studied.

Upper Division

Ph 301, 302, 303 MODERN PHYSICS

3 hours each term. Offered 1972-73 and alternate years. A course covering some of the developments in physics since 1895. Included are the discovery of the electron, radioactivity, atomic structure, X rays, and elementary nuclear physics. Prerequisite: Mth 121 College Algebra; Mth 122, 123 Calculus with Analytic Geometry; and Ph 201, 202, 203 General Physics.

Ph 301L, 302L, 303L MODERN PHYSICS LABORATORY

1 hour each term. Offered 1972-73 and alternate years. Required laboratory work to complement Ph 301, 302, 303 Modern Physics.

Ph 351, 352 BASIC ELECTRONICS AND CIRCUITS

4 hours each term. Offered 1971-72 and alternate years. Basic electricity, magnetism, elementary circuit theory are considered. Instruments studied

include power supplies, recorders, oscillators, amplifiers, etc. Applications to physical, chemical, and biological research are studied. Three lectures and one laboratory period per week. Identical with Ch 351, 352. Prerequisite: Ph 201, 202, 203 General Physics or GSc 102 Foundations of Physics.

Ph 353 ELECTROMAGNETIC WAVES

4 hours. Offered 1971-72 and alternate years. A study of Maxwell's equations, radio and radar waves, physical optics, etc. Three lectures and one laboratory period per week. Prerequisite: Mth 201, 202 Multivariable Calculus and Ph 201, 202, 203 General Physics.





Division V

Religion

Chairman: Myron D. Goldsmith

Harold Ankeny, David C. Le Shana, Paul M. Mills, Arthur O. Roberts,
Hugh Salisbury, Ronald Worden

Basic Objectives

1. To give every student opportunity for systematic Bible study and Christian interpretation through required and elective courses.
2. To provide preprofessional studies basic to pastoral, evangelistic, educational, and missionary ministry of the Christian faith.
3. To provide a fund of biblical knowledge and consistent teaching methodology for those who plan to serve as Christian education directors, Sunday school teachers, youth or adult leaders, and social workers.
4. To enable students through a study of philosophy to participate in formal thinking about problems of nature, knowledge, and value with the aim of increasing awareness of the force of ideas in the world.

Major Requirements

B.A. Degree

A major may be elected from the fields of Bible-Christian education or religion-philosophy. A minimum of fifty-seven term hours is required for the major and must be distributed as follows: a minimum of thirty-six term hours shall be taken in the major field and must include at least eighteen upper division hours; an additional eighteen term hours, nine of which are upper division, must be chosen from the other field. All religion majors are required to take R 300 Persuasive Address and to complete the requirements for a Bachelor of Arts degree.

INTERDISCIPLINARY MAJOR CHRISTIAN EDUCATION AND MUSIC

An interdisciplinary major may be elected from the fields of Christian education and music. A minimum of seventy-two term hours is required

for the major and must be distributed as follows: a minimum of thirty-six term hours in Christian education and Bible; an additional eighteen hours in music, and nine hours in two of the following fields: art, education, psychology, physical education, science, speech, drama, sociology, business, Spanish, and political science. Students electing the interdisciplinary major in Christian education and music will consult with advisors in the Division of Religion for specific courses recommended in the four fields and will complete the requirements for the Bachelor of Arts degree.

Music requirements in the eighteen hour block will be Mus 121, 122, 123 Theory I; Mus 340 Church Music; Mus 201, 202, 203 Elementary Conducting. Music requirements in the thirty-six hour block additionally require Mus 270 Vocal Techniques, plus Ensemble (2 years) 3 hours; electives, 4 hours; and approved independent study, 9 hours.

BIBLE

Lower Division

GE 101, 102, 103 LITERATURE OF THE BIBLE

3 hours each term. A survey of the Bible using selected books and portions. The major religious themes and their literary forms will be studied in historic context with attention given to the tools for biblical study useful in handling the problems of authorship, text, and interpretation.

B 201, 202, 203 SECOND-YEAR NEW TESTAMENT GREEK

4 hours each term. Offered 1971-72 and alternate years. Identical with Gr 201, 202, 203. See Division III for description of the course and prerequisite. Students seeking to satisfy the lower division foreign language requirement must register for Gr 201, 202, 203.

B 240 OLD TESTAMENT POETRY

3 hours. A study of the poetical books: Job, Psalms, Proverbs, Ecclesiastes, and the Song of Solomon. Emphasis will be placed on the great themes of these books as well as upon the forms of poetry, drama, and wisdom literature. Reference will be made to the Apocrypha.

B 260 THE SYNOPTIC GOSPELS

3 hours. A study of the life and teaching of Jesus Christ as given in the accounts of Matthew, Mark, and Luke.

B 270 THE WRITINGS OF JOHN

3 hours. A study of the meaning of belief in Jesus Christ, the Son of God, as depicted in Johannine literature: the Gospel, letters, and Apocalypse.

Upper Division

Courses marked with asterisks (*) will satisfy general education religion requirements.

B 301, 302, 303 NEW TESTAMENT GREEK

4 hours each term. Identical with B 201, 202, 203 and Gr 201, 202, 203, but upper division.

B 310 OLD TESTAMENT HISTORY*

4 hours. Offered 1971-72 and alternate years. A study of the text of the historical books, Genesis to Esther, along with the history of related nations.

B 330 OLD TESTAMENT PROPHETS*

4 hours. Offered 1971-72 and alternate years. A study of historical backgrounds, literature, and spiritual themes of the books of the Hebrew prophets, Isaiah to Malachi.

B 340 OLD TESTAMENT POETRY*

3 hours. Identical with B 240 for upper division students.

B 360 THE SYNOPTIC GOSPELS*

3 hours. Identical with B 260 for upper division students.

B 370 THE WRITINGS OF JOHN*

3 hours. Identical with B 270 for upper division students.

B 400 THE ACTS*

4 hours. Offered 1972-73 and alternate years. A study of the New Testament church as shown in The Acts.

B 410 PAUL'S EPISTLES*

4 hours. Offered 1972-73 and alternate years. A study of the New Testament church as reflected in the writings of Paul. The Epistles and their doctrines will be related to the evangelistic activities as reported in The Acts.

B 480 HEBREWS AND THE GENERAL EPISTLES*

4 hours. Offered 1972-73 and alternate years. A study of the non-Pauline letters of the New Testament.

CHRISTIAN EDUCATION

Lower Division

Ced 110 INTRODUCTION TO CHRISTIAN EDUCATION

3 hours. A basic survey of the scope of Christian education to acquaint the student with the overall nature of the educational task of the local church and to provide basic preparation for the major.

Ced 120 CHRISTIAN EVANGELISM

3 hours. To develop a biblical philosophy of evangelism with special emphasis on a working acquaintance with literature and materials useful in evangelism. Study of how to present Christ effectively and intelligently in personal conversation.

Ced 220 THE CHRISTIAN FAMILY IN THE CHURCH

3 hours. Offered 1971-72 and alternate years. Special attention given to the biblical doctrine of the church and the Christian family. Stresses the importance of cooperation between the home and the church in Sunday school evangelism, youth groups, camping, leadership. A working acquaintance with literature and materials useful in teaching the family at home.

Upper Division

Ced 310 HUMAN DEVELOPMENT

5 hours. Identical with Psy 310. See Division VI for description of course and prerequisite.

Ced 350 INSTRUCTIONAL MEDIA

2 hours. Identical with Ed 350. See Division I for description of course and prerequisite.

Ced 410 GUIDANCE AND COUNSELING

5 hours. Identical with Psy 410. See Division VI for description of course and prerequisite.

Ced 460 PSYCHOLOGY OF LEARNING

4 hours. Identical with Psy 460. See Division VI for description of course and prerequisite.

Ced 475 FIELD STUDY IN CHRISTIAN LEADERSHIP

2-5 hours. Supervised internship in the areas of Christian education or pastoral leadership. Open to upper division students. Participation limited to four terms. Admission by application only.

Ced 485 SELECTED TOPICS

1-3 hours. Various topics as announced that represent current faculty interests and competencies. Prerequisite: CED 110, Introduction to Christian Education.

PHILOSOPHY

Lower Division

Phl 210 INTRODUCTION TO PHILOSOPHY

4 hours. A study of elementary problems about knowledge, nature, and values.

Phl 220 LOGIC

4 hours. Practical exercises in the development of effective thinking. Fallacies and propaganda techniques will be studied as well as procedures in deductive and inductive reasoning.

Phl 230 ETHICS

4 hours. A survey of ethical theories by which men live, with special attention to Christian moral philosophy.

Phl 271, 272, 273 SOPHOMORE HONORS COLLOQUIUM

1 hour each term. Limited to sophomores in the Intensified Studies program. Discussion of literary and philosophical themes from selected books.

Upper Division

Phl 310 INTRODUCTION TO PHILOSOPHY

4 hours. Identical with Phl 210 for upper division students.

Phl 320 LOGIC

4 hours. Identical with Phl 220 for upper division students.

Phl 330 ETHICS

4 hours. Identical with Phl 230 for upper division students.

Phl 371, 372, 373 JUNIOR HONORS COLLOQUIUM

1 hour. Limited to juniors in the Intensified Studies program. A continuation of Phl 271, 272, 273 Sophomore Honors Colloquium.

Phl 410 SOCIAL AND POLITICAL THEORY

4 hours. Offered 1971-72 and alternate years. Identical with Soc 410, PSc 410. See Division VI for description of course and prerequisites.

Phl 485 SELECTED TOPICS

2 hours. A seminar focusing upon issues in metaphysics, epistemology, or axiology. Prerequisite: Phl 210 Introduction to Philosophy or permission of the instructor.

RELIGION

Upper Division

Courses marked with asterisks (*) will satisfy general education religion requirements.

R 300 PERSUASIVE ADDRESS

3 hours. Offered 1972-73 and alternate years. Identical with Sp 300. See Division III for description of course. Prerequisite: Sp 210 or permission of instructor. The course provides a background for more extensive homiletical training at the seminary level.

R 320/420 BIBLE ARCHAEOLOGY*

4 hours. Offered 1971-72 and alternate years. (R 420 offered as field study abroad.) A study of places and the scenes of biblical history with a special emphasis upon archaeological findings as they relate to the events of the Old Testament.

R 350 THE HOLY LAND IN HISTORY AND PROPHECY*

4 hours. Offered as field study abroad. A study of the environment in which certain Bible prophecies were made and of their fulfillment in history, with opportunity for observing archaeological evidence of their fulfillment.

R 380 CHRISTIAN APOLOGETICS*

3 hours. A study of principles of Christianity as expressed by classic and contemporary philosophers and theologians.

R 381 HISTORY OF FRIENDS*

3 hours. The Quaker movement will be studied against the setting of its historical, social, and religious background.

R 382 DOCTRINE OF FRIENDS*

3 hours. The distinguishing beliefs of the Friends Church will be studied from the important doctrinal documents of its history. Contemporary trends will be examined.

R 401 THE ANCIENT WORLD*

5 hours. Offered 1971-72 and alternate years. The focus is upon the Graeco-Roman world with a survey of the civilizations from which it grew and the emergence of Christendom within the western world. The course will lead up to A.D. 600. Identical with Hst 401.

R 402 MEDIEVAL AND EARLY MODERN HISTORY*

5 hours. Offered 1971-72 and alternate years. A study of the events and major ideas of the medieval and early modern period up to A.D. 1648. The significant role of Christianity in history will be noted. Identical with Hst 402.

R 403 CHRISTIANITY IN THE MODERN WORLD*

4 hours. Offered 1971-72 and alternate years. The spread and influence of Christianity from the religious wars to the present time. The impact of Christianity upon culture and of secularism upon the forms of Christianity will be noted.

R 430 MISSIONS AND EVANGELISM

4 hours. Offered 1972-73 and alternate years. A study of the methods of Christian outreach utilized by the church both within a given culture and outside that culture in missionary endeavor.

R 431, 432, 433 THEOLOGY*

3 hours each term. Offered 1971-72 and alternate years. An introductory study of theism followed by a survey of systematic theology.

R 440 COMPARATIVE RELIGIONS*

4 hours. Offered 1972-73 and alternate years. A comparative study between Christianity and other prominent religions of the world, such as Buddhism, Mohammedanism, and Hinduism. Attention is given also to modern religious cults.

R 450 CHRISTIAN WORSHIP

2 hours. Offered 1972-73 and alternate years. A research course in which different types of worship are studied against the perspectives of history and the response of the Christian community to contemporary needs.

R 460 PASTORAL MINISTRY

3 hours. Offered 1972-73 and alternate years. A study of the nonpreaching phases of pastoral work, such as church administration, publicity, personal and community contacts, visitation, counseling, and the minister's organization of time. Some attention will be given to pastoral psychology.

R 490 CONTEMPORARY RELIGIOUS THOUGHT

3 hours. A seminar in which contemporary theologians, philosophers, and religious thinkers are read and discussed.

Division VI

Social Science

Chairman: George H. Moore

L. Gerald Buchan, Harvey J. Campbell, Paul S. Cammack, Harold C. Elkinton, Dieter Engelhardt, Mackey W. Hill, Berton L. Lamb II, George H. Layman, Sheldon Louthan, Naomi Becky Mansfield, David V. Myton, Charles Nielsen, Harold L. Wilhite

Basic Objectives

1. To enable the student to acquire basic knowledge, understanding, and appreciation of the developments and achievements of past general culture.

2. To enable the student to formulate critical standards by which current changes may be evaluated in the light of the past and to see the role of the individual in these changes.

3. To help the student to learn about human behavior, values, and experiences for the purpose of understanding, describing, predicting, and directing himself and his environment in such ways that he matures into an effective, integrated, goal-directed Christian citizen.

4. To provide the student with backgrounds and skills preliminary to graduate or advanced study.

5. To provide competence in these aspects of the liberal arts program of studies preliminary to a career in teaching, law, diplomacy, journalism, social service, business, the Christian ministry, and others.

6. To prepare men and women for positions requiring executive responsibility, leadership, and policy-making ability.

MAJORS OFFERED

The division offers subject majors in the following fields: economics and business, history, political science, psychology, psychology-sociology, and sociology. It offers a social work concentration, and also a secondary teaching major and minor in social studies (see page 36 for description of this program).

ECONOMICS AND BUSINESS

B.A. OR B.S. DEGREE

Major Requirements

Forty-five hours with a minimum of twenty-four upper division are required including Bus 101, 102, 103; Eco 201, 202, 203; Eco 340; and either Eco 490 or Eco 495. Courses in history, political science, ethics, and speech (particularly Sp 290 Business and Professional Speaking) are recommended to support the major.

BUSINESS

Lower Division

Bus 101, 102, 103 PRINCIPLES OF ACCOUNTING

3 hours each term. A basic course in accounting theory and practice. Four hours available first term for students wishing a terminal course.

Bus 201, 202, 203 INTERMEDIATE ACCOUNTING

3 hours each term. A review of accounting procedures; financial statements and their interpretation; capital stock; surplus, dividends, and reserves; analysis of working capital and operations.

Upper Division

Bus 301, 302, 303 BUSINESS LAW

3 hours each term. Offered 1971-72 and alternate years. A course designed to acquaint the student with the legal aspects of common business transactions. It includes the law of contracts, agency, negotiable instruments, and other phases of private law.

Bus 310 PRINCIPLES OF AUDITING

3 hours. Offered 1971-72 and alternate years. Auditing procedure involved in connection with assets and liabilities, accounts showing net worth, closing of an audit, etc. Prerequisite: Bus 101, 102, 103 and Bus 201, 202, 203.

Bus 311, 312 PRINCIPLES OF COST ACCOUNTING

3 hours each term. Offered 1971-72 and alternate years. Basic principles of cost accounting, departmentalization, expense allocation, etc. Prerequisites: Bus 101, 102, 103 and Bus 201, 202, 203.

Bus 320 PERSONNEL MANAGEMENT

3 hours. Offered 1972-73 and alternate years. Philosophy behind obtaining and maintaining an effective work force. Procedures and theories followed in carrying out a modern personnel program. Emphasis is given to human relations.

ECONOMICS

Lower Division

Eco 201, 202, 203 PRINCIPLES OF ECONOMICS

3 hours each term. A study of basic economics as it relates to the individual and to the business community. Includes an introduction to macroeconomic and microeconomic theory and analysis.

Upper Division

Eco 320 LABOR ECONOMICS

3 hours. Offered 1971-72 and alternate years. A survey of the labor market, unemployment, wage theories, and various types of labor legislation in relation to national income and business cycles. Prerequisite: Eco 201, 202, 203 Principles of Economics.

Eco 330 MANAGEMENT ECONOMICS

3 hours. Offered 1971-72 and alternate years. The study of economics as a prime factor in the managing of resources and in the making of business decisions. Prerequisite: Eco 201, 202, 203 Principles of Economics.

Eco 340 MARKETING

3 hours. Offered 1971-72 and alternate years. An introduction to the basic problems and practices in marketing management. Emphasizes sales and advertising as it relates to marketing to give the student a broad and necessary understanding of marketing problems and functions of the various types of middlemen. Prerequisite: Eco 201, 202, 203.

Eco 371 MONEY AND BANKING

3 hours. Offered 1972-73 and alternate years. The functions of money, credit, and banking in the economic system; monetary standards; banking and monetary theory.

Eco 421 PUBLIC FINANCE

3 hours. Offered in 1971-72 and alternate years. The economic functions of government, government resources and expenditures, fiscal coordination, public debt, effects of taxes and public expenditures. Fund accounting emphasized.

Eco 431 INTERNATIONAL ECONOMICS

3 hours. Offered 1972-73 and alternate years. A study presenting economic problems on an international level and their relationship to government and business. Emphasis is particularly given to the economic progress by countries in various stages of economic development.

Eco 490 SENIOR INTERNSHIP

3-4 hours. Combines 3 to 4 weeks on the job experience with classroom instruction in preparing graduates for business careers. Required for majors in economics and business. Students unable to serve the internship may elect to enroll in Eco 495 Individual Study if their GPA is 2.5 or above.

Eco 495 SPECIAL STUDY

2-3 hours. Subject matter and credit arranged for the needs of the individual student. Only students with a 2.5 GPA eligible.

GEOGRAPHY

Geo 101, 102, 103 INTRODUCTION TO GEOGRAPHY

3 hours each term. An introduction to physical and cultural geography.

HISTORY

B.A. DEGREE

Major Requirements

Two years of foreign language, or its equivalent, in the general education program; plus Hst 101, 102, 103 Civilizations; Hst 201, 202, 203 United States; Hst 490 Senior Seminar; and a minimum of six hours in political science are required. Additional history courses totaling thirty upper division hours must be completed. Supportive courses in economics, sociology, geography, and anthropology are recommended.

Lower Division

Hst 101, 102, 103 CIVILIZATIONS

3 hours each term. A brief survey of civilizations, ancient through modern times.

Hst 201, 202, 203 UNITED STATES

3 hours each term. A history of America from its colonial origins to its contemporary leadership.

Upper Division

Hst 300 AMERICAN ECONOMIC HISTORY

4 hours. Offered 1971-72 and alternate years. A survey of economic developments in American history.

Hst 310 AMERICAN CONSTITUTIONAL DEVELOPMENT

4 hours. Offered 1971-72 and alternate years. Identical with PSc 310. See below for description of course and prerequisite.

Hst 330 PACIFIC NORTHWEST

3 hours. Offered 1971-72 and alternate years. The settlement and history of the Pacific Northwest.

Hst 331, 332 ENGLAND

4 hours each term. Offered 1972-73 and alternate years. A history of England, Great Britain, the empire, and the commonwealth with emphasis upon constitutional and cultural-social change.

Hst 350 LATIN AMERICA

5 hours. Offered 1972-73 and alternate years. Latin American countries from colonial times to the present.

Hst 360 MODERN RUSSIA

5 hours. Offered 1972-73 and alternate years. Twentieth-century Russia with emphasis since 1917.

Hst 370 FAR EAST

5 hours. Offered 1972-73 and alternate years. Political and cultural developments of the major Far Eastern countries.

Hst 380 THE MIDDLE EAST TODAY

4 hours. Offered as field study abroad. An historical approach to the tensions within the Israeli-Arab conflict with special emphases upon events since World War II.

Hst 401 ANCIENT WORLD

5 hours. Offered 1971-72 and alternate years. Identical with R 401. See Division V for description of course.

Hst 402 MEDIEVAL AND EARLY MODERN HISTORY

5 hours. Offered 1971-72 and alternate years. Identical with R 402. See Division V for description of course.

Hst 421, 422 MODERN EUROPE

4 hours each term. Offered 1971-72 and alternate years. European political, social, economic, and cultural developments from 1648 to the present.

Hst 450 AMERICAN FOREIGN RELATIONS

4 hours. Offered 1972-73 and alternate years. A history of the emergence of American foreign policy since 1776. Identical with PSc 450.

Hst 460 TWENTIETH-CENTURY UNITED STATES

4 hours. Offered 1971-72 and alternate years. A survey of change in the United States since 1898 with emphasis since 1932.

Hst 470 GREAT ISSUES IN HISTORY

4 hours. Offered 1972-73 and alternate years. A course for history majors who wish to examine more deeply various historical interpretations than the regular course ordinarily allows.

Hst 485 SELECTED TOPICS

3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies. Intended primarily for seniors but open to juniors upon consent of the instructor.

Hst 490 SENIOR SEMINAR

3 hours. Historiography and research.

POLITICAL SCIENCE B.A. OR B.S. DEGREE

Major Requirements

The major in political science may choose to work toward the Bachelor of Arts or Bachelor of Science degree depending on which program best suits his occupational or academic goals.

FOR THE B.A. DEGREE. Two years of foreign language or its equivalent in the general education program and PSc 200 Introduction to Political Science; PSc 210 American Government; PSc 410 Social and Political Theory; Hst 201, 202, 203 United States; PSc 490 Senior Seminar are required. Additional political science courses totaling thirty-three upper division hours must be completed. In addition to the general education requirements, a major must complete a minimum of eight hours in supportive social science courses.

FOR THE B.S. DEGREE. Twelve hours of mathematics (Mth 117, 118 Finite Math and Psy 340 Statistics) plus one year of a lab science in the general education program, and PSc 200 Introduction to Political Science; PSc 210 American Government; PSc 410 Social and Political

Theory; Hst 201, 202, 203 United States; PSc 490 Senior Seminar are required. Additional political science courses totaling thirty-three upper division hours must be completed. In addition to the general education requirements, a major must complete a minimum of eight hours in supportive social science courses. Mth 210 Computer Coding and Mth 300 Computer Programing are recommended.

Lower Division

PSc 200 INTRODUCTION TO POLITICAL SCIENCE

4 hours. An introduction to the basic concerns, fields, and methods of study of political science.

PSc 210 AMERICAN GOVERNMENT

3 hours. The theory and practice of the federal government.

Upper Division

PSc 300 COMPARATIVE GOVERNMENT

4 hours. Offered 1971-72 and alternate years. Exploration in the comparative method as applied to the study of governments and structures in the political system. Special attention is given to European political systems.

PSc 310 AMERICAN CONSTITUTIONAL DEVELOPMENT

4 hours. Offered 1971-72 and alternate years. A study of the growth of the American constitution from early times to the present day. Identical with Hst 310. For political scientists, emphasis is given to case studies and precedence.

PSc 320 POLITICAL PARTIES AND PUBLIC OPINION

4 hours. Offered 1971-72 and alternate years. The development and function of American political parties and pressure groups. Special attention is given to the study of practical politics in America. Voting trends and campaign organization are considered.

PSc 330 STATE AND LOCAL GOVERNMENT

4 hours. Offered 1972-73 and alternate years. The origins, nature, and forms of government on the state and local level. Special attention is given to the rising problems of urban government, and regional planning.

PSc 340 INTERNATIONAL RELATIONS

4 hours. Offered 1972-73 and alternate years. Introduction to the principles and study of interstate relations in the contemporary world. Special attention is given to the problem of sovereignty, the United Nations, and international law.

PSc 370 PEACE AND WAR

4 hours. Offered 1971-72 and alternate years. Identical with Soc 370. See below for description.

PSc 400 PUBLIC ADMINISTRATION

4 hours. Offered 1971-72 and alternate years. The role of the administrator in modern government. Special attention is given to the process of problem solving, priority allocation, system analysis, and techniques of leadership. Prerequisite: PSc 330 State and Local Government.

PSc 410 SOCIAL AND POLITICAL THEORY

4 hours. Offered 1971-72 and alternate years. Identical with Soc 410, Phl 410.

PSc 450 AMERICAN FOREIGN RELATIONS

4 hours. Offered 1972-73 and alternate years. Identical with Hst 450. See above for description of course.

PSc 475 FIELD EXPERIENCE IN PUBLIC SERVICE

1-8 hours. Supervised work experience in a governmental agency. May be taken twice with a total credit of no more than eight hours. Prerequisite: PSc 210 American Government, PSc 330 State and Local Government, PSc 400 Public Administration, and permission of instructor.

PSc 485 SELECTED TOPICS

3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies. Intended primarily for seniors but open to juniors upon consent of the instructor.

PSc 490 SENIOR SEMINAR

3 hours. Devoted to the integration of information and attitudes acquired during the course of study in political science and the social sciences generally. Special attention is given to a consideration of the scope and method in social science. Prerequisite: PSc 200 Introduction to Political Science, plus twelve hours of study in upper division political science and permission of instructor.

PSc 495 SPECIAL STUDY

1-4 hours. Individual study in areas of political science that are of special concern to the student. The course may be taken only with the permission of the chairman of the social science division and consent of the instructor. No more than eight hours may be earned in special study.

PSYCHOLOGY B.A. OR B.S. DEGREE

Major Requirements

A minimum of eight term hours of Psy 201 General Psychology and Psy 202 Personality is required. Certain other prerequisites are necessary for some of the upper division courses. A student must complete a minimum of fifty-four term hours in psychology, thirty of which must be upper division. Psy 340 Statistical Procedures is required for both B.S. and B.A. degree programs. Courses taken under the general education requirements are not counted toward the major. Psy 490 Senior Seminar is required.

PSYCHOLOGY-SOCIOLOGY B.A. OR B.S. DEGREE

Major Requirements

Psy 201 General Psychology, Psy 202 Personality, Soc 201 Principles of Sociology, and Soc 203 Social Problems are prerequisites to upper division courses. A student must complete the minimum of twenty-seven

term hours in each field of psychology and sociology, eighteen of which must be upper division courses. Psy 340 Statistical Procedures, Psy 490 Systems and Theories of Psychology, and Soc 490 Senior Seminar are required. Courses taken under general education requirements are not counted toward the major.

Social Work Concentration

A psychology-sociology major is recommended for students preparing to enter positions in social service after graduation or graduate school social work. The concentration in social work includes: Soc 391 Principles of Social Work, Soc 392 Social Work Institutions, Soc 393 Social Casework, Group Work, and Soc 475 Social Work Field Experience. Other courses recommended for this concentration include Psy 310 Human Development, Soc 340 Marriage and the Family, Soc 350 Social Psychology, and Soc 330 Ethnic Group Relations. Biology is recommended and either a proficiency in speech or the course, Fundamentals of Speech, is strongly recommended. Courses in history, economics, political science, anthropology, and philosophy are also suggested.

PSYCHOLOGY

Lower Division

Psy 201 GENERAL PSYCHOLOGY

4 hours each term. An introductory study of human behavior and experience including theories and methods of psychology, the nature of human development, learning and retention, sensation and perception, thinking, and group processes.

Psy 202 PERSONALITY

4 hours. A treatment of the major theoretical approaches to the study of personality, including motivation and drive, emotion, conflict and frustration, mental health, and therapy.

Upper Division

Psy 300 GROUP DYNAMICS

3 hours. A study of principles and techniques involved in interaction of individuals within various groups. This course is designed to assist students who are preparing to work with groups in schools, churches, youth organizations, industry, and other types of groups. Prerequisite: Psy 201 General Psychology.

Psy 310 HUMAN DEVELOPMENT

5 hours. A study of the physical, intellectual, social, and moral growth development from the prenatal period through adolescence. Laboratory study and observation of children at home and in school are an important part of this course. There is an emphasis on social influences in development. Identical with CEd 310 and HEc 310. Prerequisite: Psy 201 General Psychology.

Psy 320 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION

4 hours. Identical with Ed 320. See Division I for description of course and prerequisite.

Psy 340 STATISTICAL PROCEDURES

3 hours. A study of elementary statistical procedures and their application to educational and psychological study and research. Prerequisite: Psy 201 General Psychology and a good background in mathematics.

Psy 350 SOCIAL PSYCHOLOGY

5 hours. A study of psychological and sociological processes within personal and group behavior, including the role of social mores, social membership, and leadership. Identical with Soc 350. Prerequisite: Psy 201 General Psychology and Soc 201 Principles of Sociology.

Psy 400 PSYCHOLOGICAL TESTS AND MEASUREMENTS

5 hours. Offered 1972-73 and alternate years. A survey of the purposes, techniques, and basic assumptions in measurement of aptitudes, achievements, interests, intelligence, and personality. Some laboratory experiences in the administration, interpretation, and scoring of tests are provided. Prerequisite: Psy 201 General Psychology and Psy 340 Statistical Procedures or permission of instructor.

Psy 410 GUIDANCE AND COUNSELING

5 hours. A study of purposes, principles, and techniques in guidance and counseling designed to offer assistance to teachers, ministers, social workers, and others who are responsible for individual and group advising. Identical with Ed 410, CEd 410. Prerequisite: Psy 201 General Psychology; Psy 202 Personality. Background study of child psychology, adolescent psychology, and personality theories is desirable.

Psy 420 ABNORMAL PSYCHOLOGY

5 hours. Offered 1971-72 and alternate years. A study of various kinds of nontypical behavior, probable causes, and current concepts of prevention and therapy. Emphasis is placed on normal motives, frustrations, and adjustment mechanisms that may become exaggerated into abnormal behavior. Prerequisite: Psy 201 General Psychology and Psy 202 Personality. Background study of personality theories, motivation, and developmental psychology is desirable.

Psy 430 PERSONALITY THEORIES

3 hours. Offered 1972-73 and alternate years. Semi-independent study in various outstanding theories of personality, designed to assist those who plan to teach or to enter social work, industrial management, and various kinds of guidance and counseling. Prerequisite: Psy 201 General Psychology; Psy 202 Personality; and consent of instructor. Background in developmental psychology, social psychology, and group dynamics is desirable.

Psy 460 PSYCHOLOGY OF LEARNING

4 hours. Offered 1971-72 and alternate years. An advanced course in learning theory and practice, designed to give depth and understanding to students planning to specialize in teaching, learning, perception, and related fields. Laboratory experiences. Identical with CEd 460. Prerequisite: Psy 201 General Psychology and Psy 320 Psychological Foundations of Education or consent of instructor.

Psy 470 MOTIVATION

4 hours. Offered 1971-72 and alternate years. A study of tendencies, causes and sustaining aspects of human behavior. Designed to assist those

who plan to teach or to enter social work, industrial management, and various kinds of guidance and counseling. Prerequisite: Psy 201 General Psychology; Psy 202 Personality; and consent of instructor.

Psy 475 FIELD EXPERIENCE

1-5 hours. Supervised experiences in mental health agencies and institutions. Prerequisite: Consent of instructor.

Psy 485 SELECTED TOPICS

3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies. Intended primarily for seniors, but open to juniors upon consent of instructor.

Psy 490 SYSTEMS AND THEORIES OF PSYCHOLOGY

3 hours. A seminar in which various schools of psychology, their origins, distinguishing characteristics, major contributions, theoretical positions, and contemporary issues are investigated. Required for psychology and psychology-sociology majors. Prerequisite: Psy 201 General Psychology; Psy 202 Personality; and twelve upper division hours in psychology.

SOCIAL STUDIES

Upper Division

SS 440 TEACHING OF THE SOCIAL STUDIES

3 hours. The objective, curriculum, procedures, evaluation, instructional materials, and resources in teaching social studies including observations and demonstrations. Prerequisite: Ed 330 Principles of Secondary Education.

SS 490 SOCIAL SCIENCE SEMINAR

3 hours. Readings and research across the social sciences related to education.

SOCIOLOGY B.A. DEGREE

Major Requirements

Soc 201 Principles of Sociology, Soc 202 Social Problems, Psy 340 Statistical Procedures, and Soc 490 Senior Seminar are required. Courses taken under general education requirements are not counted toward the major. A total of fifty-four hours in anthropology or sociology is required, of which at least thirty must be in upper division courses.

Lower Division

Soc 201 PRINCIPLES OF SOCIOLOGY

5 hours. The social forces and processes in the evolving life of modern social organization and man's interaction with it.

Soc 202 SOCIAL PROBLEMS

3 hours. Society's problems of and solutions for poverty, crime, immigration, race, family life, and other topics.

Upper Division

Soc 301 CULTURAL ANTHROPOLOGY

5 hours. A study of living and recent societies of the world, their languages, and their ways of life.

Soc 320 URBAN SOCIETY

4 hours. Offered 1972-73 and alternate years. The study of minority relations, their problems, causes, and possible adjustments in American socio-cultural life.

Soc 330 ETHNIC GROUP RELATIONS

4 hours. Offered 1971-72 and alternate years. A study of racial characteristics and their causes, racial attitudes and their origins, and an examination of contemporary problems and solutions. Prerequisite: Soc 201 Principles of Sociology and Soc 202 Social Problems or permission of the instructor.

Soc 340 MARRIAGE AND THE FAMILY

3 hours. Offered 1972-73 and alternate years. The origins, functions, problems, and possible adjustments in family life. Identical with HEC 340.

Soc 350 SOCIAL PSYCHOLOGY

5 hours. Identical with Psy 350. See above for description of course and prerequisite.

Soc 360 DEVIANT BEHAVIOR

4 hours. Offered 1972-73 and alternate years. A study of individual and social factors in delinquency from causation to treatment and preventive programs.

Soc 370 PEACE AND WAR

4 hours. Offered 1971-72 and alternate years. A survey of the social, economic, political, and religious factors in war and specific efforts to achieve peace. Identical with PSc 370.

Soc 391 PRINCIPLES OF SOCIAL WORK

3 hours. Social welfare as a function and response of society; welfare programs as related to social problems.

Soc 392 SOCIAL WORK INSTITUTIONS

3 hours. A study of the variety of settings in which social work is practiced; their organization and relationships.

Soc 393 SOCIAL CASEWORK, GROUP WORK

3 hours. Methods of social work with individuals, groups, and community organizations.

Soc 410 SOCIAL AND POLITICAL THEORY

4 hours. Offered 1971-72 and alternate years. A critical study of some of the major social philosophers from Comte to the present. Prerequisite: Soc 201 Principles of Sociology or PSc 200 Introduction to Political Science and Phl 210/310 Introduction to Philosophy or permission of the instructor. Identical with Phl 410, PSc 410.

Soc 475 SOCIAL WORK AGENCY EXPERIENCE

2-5 hours. Supervised experiences in social welfare agencies and institutions. Prerequisite: Consent of instructor.

Soc 490 SENIOR SEMINAR

3 hours. Required of sociology and psychology-sociology majors.



Faculty, Administration, and Board of Trustees

The following registers are for the 1970-71 academic year.

FACULTY

The faculty is composed of all people involved in instruction, certain officers who administer as well as teach, and the librarians. They are classified as professors, associate professors, assistant professors, and instructors, depending upon degree, seniority, tenure, and experience.

DAVID C. Le SHANA, President. B.A. Taylor University 1953, M.A. Ball State University 1959, Ph.D. University of Southern California 1967. George Fox College 1967-

ARTHUR O. ROBERTS, Dean of Faculty, Professor of Religion and Philosophy, Director of Intensified Studies. B.A. George Fox College 1944, B.D. Nazarene Theological Seminary 1951, Ph.D. Boston University 1954. George Fox College 1953-

FRANK L. COLE, Dean of Administration, Associate Professor of Business. B.A. George Fox College 1930, M.A. University of Oregon 1958. George Fox College 1963-

HAROLD ANKENY, Dean of Students, Instructor in Education and Religion. B.A. George Fox College 1950. George Fox College 1968-

MAURICE CHANDLER, Director of Development. B.A. George Fox College 1960. George Fox College 1966-

MILO CLIFTON ROSS, Chancellor of Associated Christian Colleges of Oregon. B.A. Willamette University 1934, D.D. Cascade College 1957, L.H.D. Willamette University 1960. Associated Christian Colleges of Oregon 1969-

LANSING W. BULGIN, Provost of Associated Christian Colleges of Oregon. B.A. Linfield College 1948, M.M. Indiana University 1950, Ph.D. Indiana University 1957. Associated Christian Colleges of Oregon 1965-

RICHARD E. ALLEN, Instructor of Physical Education. B.S. Seattle Pacific College 1960, M.S. University of Oregon 1968. George Fox College 1969-

NADINE M. BROOD, Instructor of Physical Education. B.S. Linfield College 1962. M.S. University of Oregon 1968. George Fox College 1970-

ROBERT C. BROWN, Instructor of Physical Education. B.S. University of Oregon 1964. M.S. University of Oregon 1968. George Fox College 1970-

PAUL S. CAMMACK, Associate Professor of Spanish. B.A. Willamette University 1937, M.A. University of Oregon 1942. George Fox College 1961-

HARVEY J. CAMPBELL, Registrar, Associate Professor of History. B.A. George Fox College 1936, M.A. Colorado State College of Education 1952. George Fox College 1958-

DONALD E. CHITTICK, Professor of Chemistry. B.S. Willamette University 1954, Ph.D. Oregon State University 1960. George Fox College 1968-

ROY P. CLARK, Associate Professor of Speech. Th.B. Marion College 1939, B.A. Friends University 1944, M.Mus.Ed. University of Portland 1954. George Fox College 1944-50; 1968-

GENEVIEVE COLE, Mrs., Periodical Librarian. B.A. George Fox College 1930, M.L. University of Washington 1963. George Fox College 1963-

DIETER ENGELHARDT, Assistant Professor of German. Certificate of Education, Luise-Henriette-School of Languages, Berlin, Germany 1962; B.A. Azusa Pacific College 1965; M.A. Portland State College 1969. George Fox College 1966-

JERRY H. FRIESEN, Assistant Professor of Music. A.A. Reedley Junior College 1953, B.M.Ed. Willamette University 1955, M.M.Ed. Willamette University 1962, doctoral candidate University of Oregon. George Fox College 1966- on leave 1970-71

JOSEPH E. GILMORE, Assistant Professor of Music (Interim.) B.Mus.Ed. Friends University 1961, M.Mus.Ed. Wichita State University 1967. George Fox College 1970-

ROBERT D. GILMORE, Associate Professor of Education, Director of Instructional Media. B.A. Azusa Pacific College 1954, B.D. California Baptist Theological Seminary 1960, M.S.Ed. University of Southern California 1968. George Fox College 1964-

MYRON D. GOLDSMITH, Professor of Religion and Language Arts, Chairman of Division of Religion. B.A. Friends University 1949, B.D. Asbury Seminary 1953, Ph.D. Boston University 1962. George Fox College 1961-

DENNIS HAGEN, Associate Professor of Music, Chairman of Division of Fine Arts. B.A. Whitworth College 1959, M.Mus.Ed. Indiana University 1963, B.D. Western Evangelical Seminary 1967, Ph.D. candidate Indiana University. George Fox College 1964-

MACKEY W. HILL, Professor of History. B.A. University of California at Los Angeles 1939, M.A. College of the Pacific 1953. George Fox College 1949-

DANNY M. HOBBS, Assistant Professor of Mathematics. B.A. Olivet Nazarene 1966, M.S. Purdue University 1968. George Fox College 1970-

- DAVID J. HOWARD, Assistant Professor of Music. B.A. Simpson Bible College 1957, B.A. San Francisco State College 1962, M.A. San Francisco State College 1968. George Fox College 1968-
- BERTON L. LAMB II, Instructor of Political Science. B.A. California Lutheran College 1967, M.A. San Francisco State College 1969. George Fox College 1969-
- ROBERT E. LAUNGER, Assistant Professor of Music. B.S. Portland State University 1961, M.M. Indiana University 1969, Ph.D. candidate University of Arizona. George Fox College 1967- on leave 1970-71
- SHELDON LOUTHAN, Associate Professor of Psychology, Director of Counseling, Testing, and Guidance. B.A. Friends University 1956, M.A. Los Angeles State College 1960, Ph.D. University of Oregon 1968. George Fox College 1963-
- DONNA L. MARKS, Instructor of Spanish, Self-Instruction Lab Supervisor. B.A. George Fox College 1969. George Fox College 1970-
- CECILIA C. MARTIN, Mrs., Professor of Language Arts, Chairman of Division of Language Arts. B.A. University of Washington 1923, M.A. University of Washington 1925, Ph.D. University of Washington 1938. George Fox College 1954-
- GENETTE McNICHOLS, Librarian. B.A. Seattle Pacific College 1954, M.L.S. University of Portland 1961. George Fox College 1956-
- LORIN J. MILLER, Assistant Professor of Physical Education, Director of Athletics. B.A. Sterling College 1960, M.S. University of Washington 1969. George Fox College 1970-
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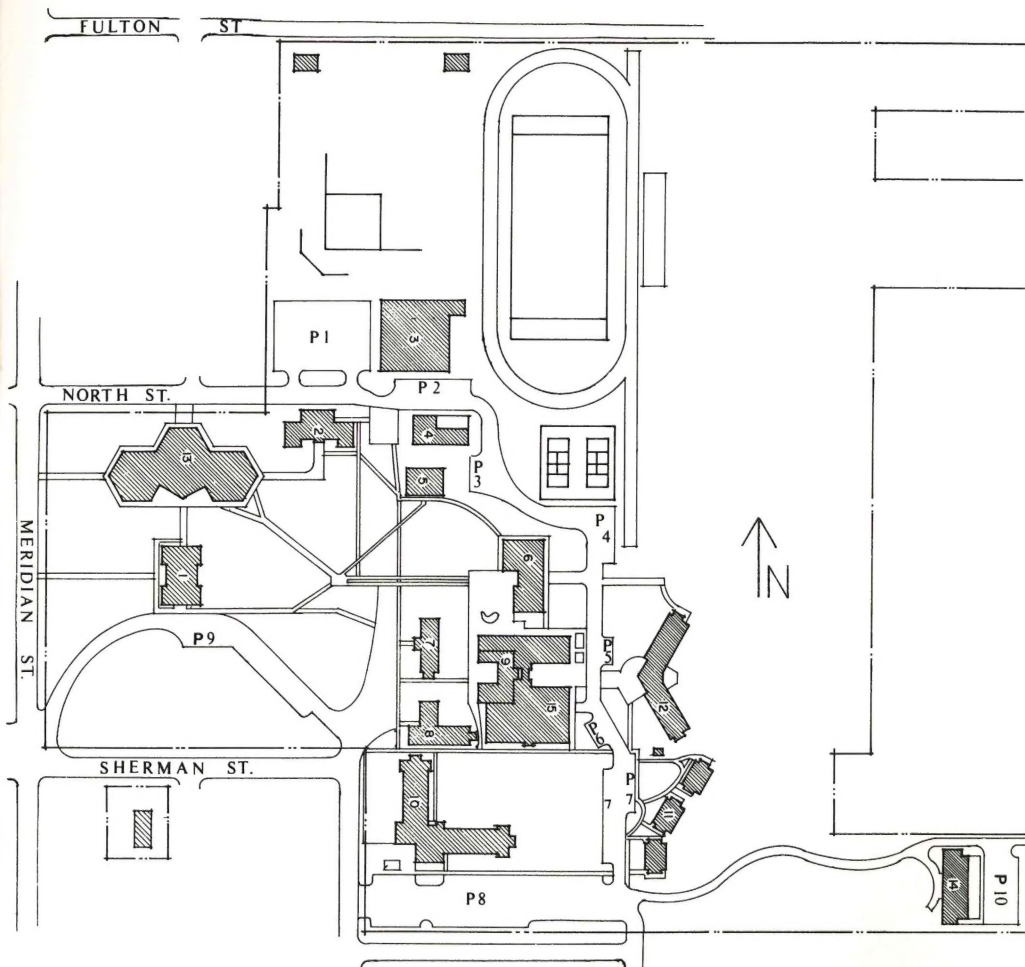
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